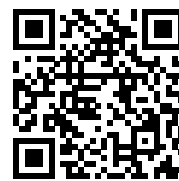


 Abilize

# ranger<sup>Li</sup>

 WATCH NOW

Scan me on your phone camera to learn more about your product



## USER MANUAL

PRODUCT CODE: MS03010028.MIO

For more products visit [careco.co.uk](http://careco.co.uk)

CareCo

POWERED BY  
**LiFePO4**  
LITHIUM - IRON PHOSPHATE

## **NEXT-GENERATION PERFORMANCE**



### **2 YEAR BATTERY WARRANTY**

Worry-free, long term support.



### **DESIGNED FOR LONGEVITY**

Up to 10x longer lifespan than lithium-ion and SLA batteries.



### **ECO-FRIENDLY ENERGY**

Safer for the planet, safer for you.



### **WHATEVER THE WEATHER**

Consistent, reliable power, rain or shine.



### **RAPID RECHARGING**

Flat to full battery in as little as 6 hours.



 Abilize

**ranger**  **Li**

### ***What is LiFePO<sub>4</sub>?***

LiFePO<sub>4</sub> (or Lithium Iron Phosphate) is a modern type of battery that's safer, lighter and lasts longer than traditional Lithium, SLA and AGM batteries.

## **INTRODUCING THE ABILIZE RANGER-LI MOBILITY SCOOTER**

The Abilize Ranger-Li has been designed to provide a comfortable and safe solution for users who have difficulty in walking for extended periods of time.

Due to CareCo's commitment to continuous product improvement, product information and designs are subject to change without notice. No claims can be made based on the data or illustrations in this user manual.

The Abilize Ranger-Li is a Class I Medical Device: Class C Mobility Scooter, with an adjustable maximum speed of 4MPH or 8MPH.

It is the responsibility of the user and/or attendant to determine if they are mentally and physically capable of using the scooter safely. A risk assessment should be completed by a competent individual before operating the scooter.

The latest/current version of this user manual is available on our website.



CareCo (UK) Limited, 1 Turing Court,  
Great Notley, Braintree, CM77 7AT

Tel: 0333 015 5000  
[www.CareCo.co.uk](http://www.CareCo.co.uk)

Thank you for choosing CareCo.



This manual can be viewed in PDF format at the following URL: **[www.careco.co.uk](http://www.careco.co.uk)**

---

## FIRST USE

- Read & understand this user manual as well as any additional warnings/leaflets supplied.
- Perform an extended initial charge of 8-12 hours to condition your new mobility scooter battery. (Subsequent charging times range from 6-8 hours. Visit “CHARGING YOUR MOBILITY SCOOTER” for more information).
- Take the time to understand the scooter’s stopping duration, turning radius, throttle sensitivity and maneuverability.
- Operate the scooter at a low speed before gradually increasing to a higher speed.
- Practice using the scooter in an empty, open area until confident enough to operate in smaller and/or public areas.
- Keep this user manual in a safe place for future reference.

If any additional assembly, disassembly and/or operation assistance is required, please contact CareCo.

## KEY DEFINITIONS

This user manual contains warnings and suggestions marked with the following symbols:



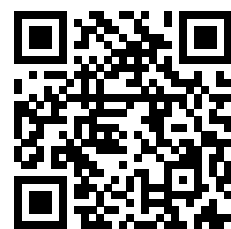
**WARNING!** Highlights a potentially hazardous condition/situation for the user and/or product.



**SUGGESTION** General suggestions and advice for operating the product.

**Scan me to learn more.**

We’ve put together a quick walkthrough video to make sure you get the most out of your new product.



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## GETTING STARTED

### CARTON CONTENTS

ITEM NUMBER	DESCRIPTION	QUANTITY
1	Abilize Ranger-Li Mobility Scooter	1
2	Abilize Ranger-Li Seat	1
3	Armrest Set	1
4	Rear-View Mirror Set	1
5	Charger	1
6	Key	2



We strongly recommend that you keep the box and internal packaging for the duration of your warranty period.

### PRODUCT COMPONENTS



1. Headrest
2. Mirror
3. Tiller Panel
4. Seat
5. Armrest
6. Headlight
7. Front Wheel
8. Rear Wheel

---

# HOW TO USE YOUR MOBILITY SCOOTER

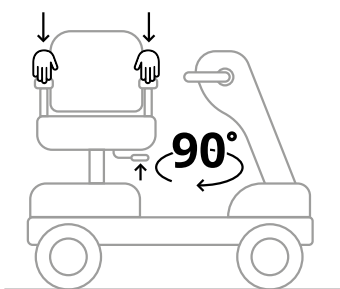
## USER INSTRUCTIONS

### TRANSFERRING TO & FROM

There are two methods for users to get on or off of the mobility scooter safely.

Always ensure the scooter is switched [OFF] and in [DRIVE] mode before getting on/off the scooter.

#### METHOD 1



#### TRANSFERRING TO

Lift the seat swivel lever and rotate the seat 90 Degrees away from the tiller.

Support your body using the armrests, before lowering into the seat.

Lift the seat swivel lever and rotate your body towards the tiller.

Release the seat swivel lever to secure the seat position.

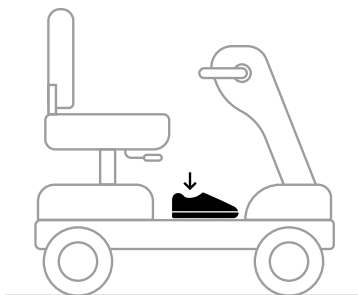
#### TRANSFERRING FROM

Lift the seat swivel lever and rotate the seat 90 degrees away from the tiller.

Support your body using the armrests, place your feet on the ground before pushing upwards to lift out of the seat.

Lift the seat swivel lever and rotate the seat towards the tiller.

## METHOD 2

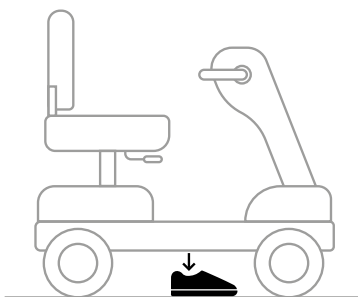


### TRANSFERRING TO

Lift the scooter armrest(s) upwards

Support your body by placing one foot on the scooter footplate before lowering into the seat.

Lower the armrest into its resting position.



### TRANSFERRING FROM

Lift the scooter armrest(s) upwards.

Support your body by placing one foot on the ground before pushing upwards to lift out of the seat.

Lower the armrest into its resting position.

## GRADIENTS



### ASCENDING GRADIENTS

Tilt your upper body forward when travelling up gradients for increased stability.



### DESCENDING GRADIENTS

Tilt your upper body back when travelling down gradients for increased stability.

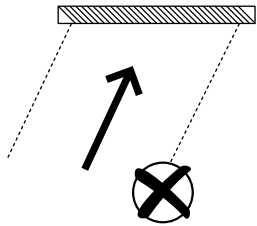
The maximum safe slope of incline is 10°.

---

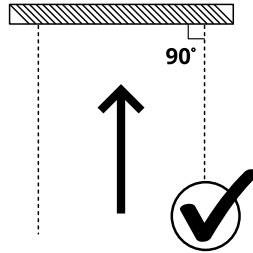
## THRESHOLDS & FIXED OBSTACLES

Approach thresholds vertically to avoid scooter misbalance.

### Incorrect Approach



### Correct Approach



## STAIRS, ESCALATORS AND LIFTS

The scooter is not designed to travel up/down stairs and escalators. Use a lift whenever possible.

## DOORS & GATES

Determine whether the door/gate opens towards or away from the user.

Reach for the handle and carefully accelerate forwards or backwards depending on the door/gate orientation.

## CORNERING

Approach corners at a speed that the user feels comfortable and in control of. If at any point the user feels like the scooter may tip, reduce the scooter speed and steering angle.

## **BRAKING TYPES**

### **REGENERATIVE BRAKING**

Slows the scooter when the throttle returns to the centre position

Slows the scooter when the speed limiter is exceeded

### **PARKING BRAKE**

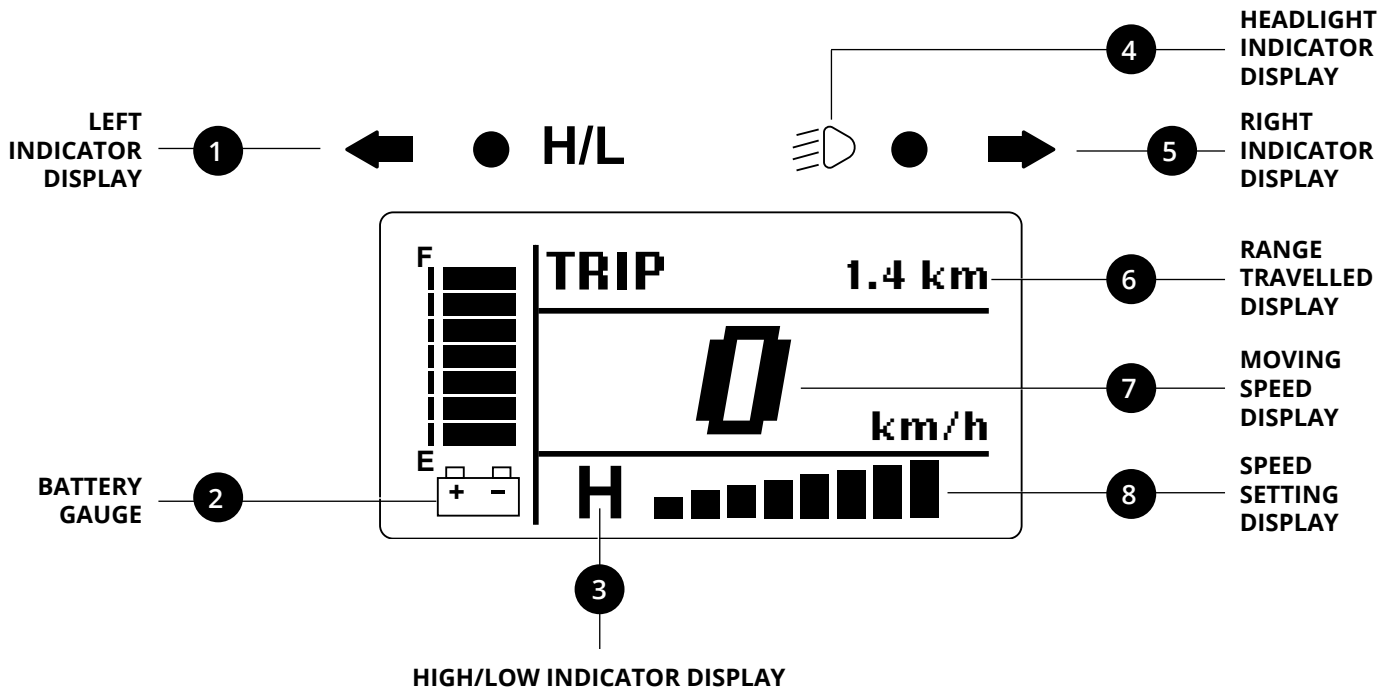
Activates after the scooter has come to a stop.

Activates when the product is in [DRIVE] mode and is powered [OFF].

### **BRAKING DISTANCE**

On flat surfaces, braking distance is approximately equal to the length of the scooter. Braking distance may increase when travelling downhill.

## TILLER DISPLAY



### 1 - LEFT INDICATOR DISPLAY

Illuminates when the left indicator is switched [ON].

### 5 - RIGHT INDICATOR DISPLAY

Illuminates when the right indicator is switched [ON].

### 2 - BATTERY GAUGE

Displays the remaining battery charge level.

### 6 - RANGE TRAVELLED DISPLAY

Displays the range travelled on the scooter.

### 3 - HIGH/LOW INDICATOR DISPLAY

Displays the current speed mode.

H - Maximum speed of 8MPH

L - Maximum speed of 4MPH.

### 7 - MOVING SPEED DISPLAY

Displays the current moving speed of the scooter.

### 4 - HEADLIGHT INDICATOR DISPLAY

Illuminates when the headlight is switched [ON].

### 8 - SPEED SETTING DISPLAY

Displays the scooters current speed setting.

## TILLER DISPLAY MODES

Press the [MODE] button on the tiller to cycle through different tiller display modes.

Visit "OTHER ADJUSTMENTS" for information on how to change unit display settings.

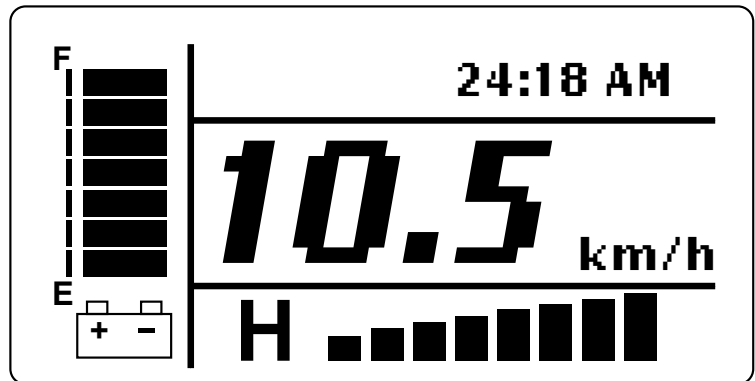
### [TIME] DISPLAY

Displays the current time.

#### Display Options:

12hr mode: 12:00AM-11:59PM

24hr mode: 00:00AM-23:59PM



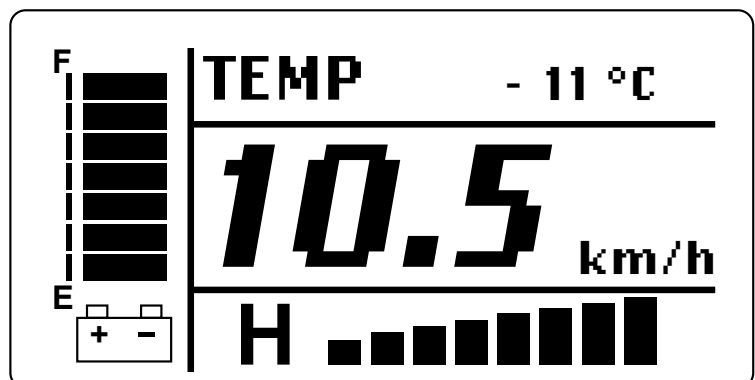
### [TEMP] DISPLAY

Displays the current ambient temperature.

#### Display Options:

Celsius Range: -20°C – 50°C

Fahrenheit Range: -4°F - 122°F

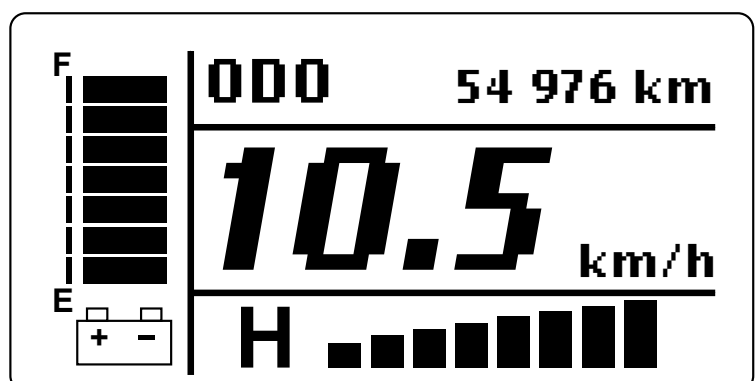


### [ODO] DISPLAY

Displays distance travelled on the scooter.

Range: 0-9999km

The odometer will automatically reset to zero once the total distance reaches 99999.



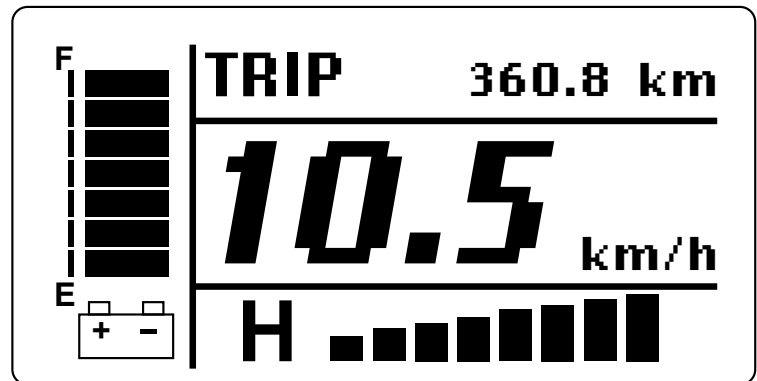
---

### [TRIP] DISPLAY

Displays current distance travelled on a singular journey.


Range 0.0-999.9km

The trip meter will stop counting when reaching 999.9.




## TILLER CONTROLS





**HAZARD SWITCH**   
Press to activate/deactivate the hazard warning signal.


**MODE SETTING** **MODE**  
Press to cycle between different display modes.


**HIGH/LOW SPEED SWITCH** **H/L**  
Press to switch between High/Low speed modes.


**HEADLIGHT BUTTON**   
Press to activate/deactivate the scooters' headlight.

**LEFT INDICATOR**   
**BUTTON**  
Press to activate/deactivate the left turning signal.


**RIGHT INDICATOR**   
**BUTTON**  
Press to activate/deactivate the right turning signal.

**SPEED DECREASE**   
**BUTTON**  
Press to decrease the scooters speed setting.

**SPEED INCREASE**   
**BUTTON**  
Press to decrease the scooters speed setting.

**HORN BUTTON**   
Press to activate the scooters' horn.

**HAND BRAKE LEVER**  
Squeeze to apply the manual scooter brake.

**THROTTLE LEVER**   
Using your right hand, squeeze the throttle lever to move the scooter forwards. Using your left hand, squeeze the throttle lever to move the scooter backwards. When the lever is released, it will return to the centre and the scooter brake will automatically engage.

---

## KEY SWITCH

Insert/extract the key to activate or deactivate the scooter.

## TILLER CHARGING SOCKET

Insert the charger to charge the scooter's battery.



**WARNING!** Ensure the throttle lever is free from obstruction when switching [ON] the scooter.

## SEAT



### ATTACHING

1. Place the seat onto the seat post at a 90-degree angle, away from the tiller.
2. Lift and hold the seat lever, then rotate the seat towards the tiller.

### REMOVING

1. Lift and hold the seat lever, then rotate the seat 90-degrees away from the tiller.
2. Pull the seat upwards to remove it from the scooter.



**SUGGESTION** Remove the scooter armrests and fold down the backrest to assist with attaching/removing.



**WARNING!** The ranger-li seat may be too heavy for some individuals to remove from the scooter. Ask for assistance if required to avoid scooter damage and/or personal injury.

---

## REAR-VIEW MIRRORS

### ATTACHING

1. Insert the mirror into the handlebar screw thread.
2. Tighten until secure.
3. Repeat on the other side.



### REMOVING

4. Unscrew the mirror from the thread.
5. Repeat on the other side.



**SUGGESTION** Adjust the mirror head until it is in a suitable position.

## MOBILITY SCOOTER MODES



### DRIVE MODE

(ELECTRONIC ASSISTED BRAKING)

Push the lever downwards, then backwards to engage Drive Mode.


(The scooter can be driven, but cannot be pushed manually by the user).




### FREEWHEEL MODE

Push the lever downwards, then forwards to engage Freewheel Mode.


(The scooter cannot be driven, but can be pushed manually by the user).

 **WARNING!** Do not change the scooters mode whilst on an incline.

 **SUGGESTION** Switching [ON] the scooter whilst in freewheel mode will activate the scooters automatic warning function.

## EMERGENCY BRAKING

Switch [OFF] the power while moving to immediately stop the scooter.

 **WARNING!** This method is for emergency situations only.

Repeated use of the [ON/OFF] switch to stop the scooter may shorten the life of the scooter's components.


---

## YOUR MOBILITY SCOOTER BATTERIES

If for any reason the scooter requires replacement batteries, please contact CareCo.

### BATTERY SPECIFICATION

BATTERY TYPE	LITHIUM PHOSPHATE
SPILLABLE/NON-SPILLABLE	NON-SPILLABLE
VOLTAGE	12V
AMPAGE	100AH
QUANTITY	2

 **WARNING!** Do not tamper with the batteries.

### MAXIMUM POTENTIAL DISTANCE

The maximum potential range that the scooter can travel is dependent on varying factors. This may include but is not limited to: Driving surface, operating habits, weather conditions and user weight.

The proposed distance for the Ranger-Li is 80km.

### AUTOMATED POWER SAVING

The scooter will switch [OFF] automatically to preserve battery life if no movement is detected for 30 minutes.

To reactivate the scooter, switch it [OFF/ON].

## CHARGING YOUR MOBILITY SCOOTER

1. Lift the plastic cover on the tiller to reveal the charging socket.
2. Insert the charger's 3-pin output into the charging socket.
3. Insert the outlet plug into a wall socket.
4. Switch [ON] the wall socket.
5. Charge for 6-8 hours.



When charging is complete, switch [OFF] the wall socket, then remove the charger from the charging port.



**SUGGESTION** Ensure the scooter is switched [OFF] before charging.

## BATTERY GAUGE DISPLAY

Use the battery gauge display to determine the remaining charge level.

Status Display							
Capacity (%)	>80	<80	<65	<50	<35	<25	<20

---

## CHARGING REGIME

Maintaining good charging habits for your mobility scooter will maximize the battery life and range per charge.

After performing an extended initial charge of 8-12 hours, battery charging times range from 6-8 hours. This is dependent on scooter usage, ambient temperature, and operating habits.

<b>Daily Use</b>	If the scooter is used daily, charge the battery at the end of each day for 6-8 hours OR until the chargers LED indicator turns green.
<b>Weekly Use</b>	If the scooter is used once or twice a week, charge the battery for at least 6-8 hours once a week OR until the chargers LED indicator turns green.
<b>Monthly Use</b>	If the scooter is stored for long periods of time, preserve the life of the battery by charging once every two weeks for 6-8 hours OR until the chargers LED indicator turns green.



**SUGGESTION** The provided charging information is to be used as a general guide. Increased/decreased scooter usage may require more/less frequent charging.

## CHARGER INFORMATION

The battery charger is fitted with a smart LED indicator that indicates when the battery is charging and when charging is complete.

LED Indicator	Charging Status
---------------	-----------------

 GREEN	Charged
--	---------

 RED	Charging
--	----------



**WARNING!** Do not use the supplied charger with any other electrical device.

Only charge the scooter with the supplied charger or an official replacement.

Do not leave the scooter on charge indefinitely.



**SUGGESTION** Charge the battery in a cool, dry place with plenty of ventilation.

## TRANSPORTATION & STORAGE

### TRANSPORTATION

#### LAND TRANSPORT

Ensure any adjustable parts are properly secured before transport to avoid transit damage.



**WARNING!** This product cannot be used as a seat in a motor vehicle.



### STORING THE SCOOTER

#### SHORT TERM STORAGE

Store the scooter in a cool and dry environment. Do not store in extreme temperatures.

#### LONG TERM STORAGE

Fully charge the battery before long term storage.

Store the scooter in a cool and dry environment. Do not store in extreme temperatures.

Charge the battery once every two weeks to preserve the life of the battery.

#### STORAGE TEMPERATURE

-40°C to 50°C



**WARNING!** Storing the scooter in extreme temperatures can cause premature rusting & damage to the scooters electronic system.

---

## COMFORT ADJUSTMENTS

### TILLER ANGLE ADJUSTMENT

1. Push & hold the tiller lever downwards.
2. Lift/lower the tiller until it is at a suitable and comfortable angle.
3. Release the tiller lever to secure the position.



**WARNING!** The Ranger-Li tiller is operated by a gas strut. Take extra care when adjusting the tiller angle.

### ARMREST WIDTH ADJUSTMENT

1. Remove the hand knob from the base of the armrest.
2. Move the armrest inwards/outwards until it is in a suitable and comfortable position.
3. Reinsert & secure the hand knob.
4. Repeat on the opposite side.



**WARNING!** Ensure the armrests are an equal distance apart and are secure before use.

## HEADREST HEIGHT ADJUSTMENT

1. Press & hold the headrest latch.
2. Lift/lower the headrest until it is in a suitable and comfortable position.
3. Release the headrest latch to secure the position.



## SEAT POSITION ADJUSTMENT

1. Lift & hold the underseat lever on the front right side of the seat.
2. Move the seat forwards/backwards until it is in at a suitable and comfortable position.
3. Release the underseat lever to secure the position.




**WARNING!** Ensure the seat is secure, and the tiller handles are at a comfortable distance before use.

---

## BACKREST ANGLE ADJUSTMENT

1. Lift & hold seat lever on the left side of the seat.
2. Tilt the backrest forwards/backwards until it is at a suitable and comfortable angle.
3. Release the lever to secure the position.




 **WARNING!** Ensure the backrest is secure before use.

## SEAT HEIGHT ADJUSTMENT

Adjust the seat height using simple household tools.

1. Remove the seat & battery cover from the scooter.
2. Disconnect the grey battery plugs.
3. Remove the seat post bolt using a hex key and spanner.
4. Lift or lower the seat post to the desired height.
5. Secure the new seat height position using the seat post bolt and tools.
6. Reconnect the battery plugs, then install the battery cover and seat.



 **WARNING!** Ensure the scooter is switched [OFF] and the battery plugs are disconnected before adjusting the seat height.

## OTHER ADJUSTMENTS

### USER SETUP

Adjust the Ranger-Li scooter settings to suit your individual needs.



**SUGGESTION** Ensure the scooter is switched [OFF] before changing scooter settings.

### BUZZER VOLUME

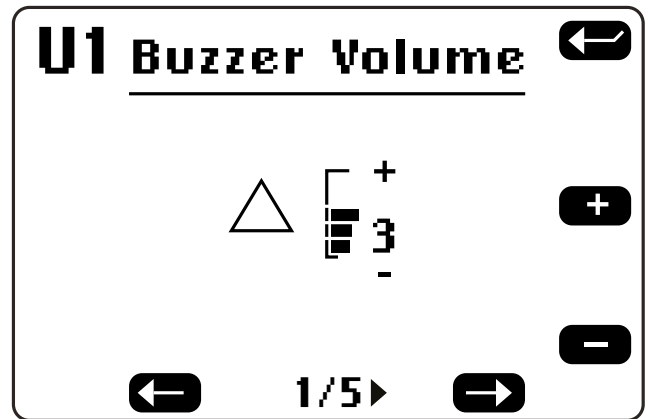
1. Press & hold the [Tortoise] [Hare] buttons simultaneously.
2. Whilst holding the [Tortoise] [Hare] buttons, switch [ON] the scooter.

“U1” Buzzer Volume will appear on the tiller display.

Cycle through items 1-5 using the [Tortoise] [Hare] buttons.

3. Increase/decrease the selected buzzer volume using the [Headlight] & [Right Indicator] Buttons.
4. Press the [MODE] button to save the setting, alternatively, do not press any button for 15 seconds to save your settings.

The tiller display will return to its normal operating mode once complete.



ITEM	DESCRIPTION	INITIAL VALUE
1/5	Hazard Warning Volume	3
2/5	Indicator Warning Volume	3
3/5	Reverse Warning Volume	3
4/5	Low Battery Warning Volume	off
5/5	Horn Volume	5

## DISPLAY UNIT SETUP

1. Press & hold the [Tortoise] [Hare] buttons simultaneously.
2. Whilst holding the [Tortoise] [Hare] buttons, switch [ON] the scooter.

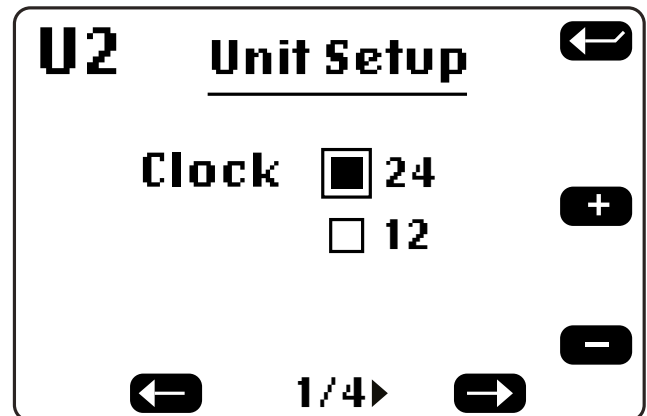
“U1” Buzzer Volume will appear on the tiller display.

3. Press the [MODE] button to cycle to “U2 Unit Setup”.

Cycle through items 1-4 using the [Tortoise] [Hare] buttons.

4. Adjust the setting using the [Headlight] & [Right Indicator] Buttons.
5. Press the [MODE] button to save the setting, alternatively, do not press any button for 15 seconds to save your settings.

The tiller display will return to its normal operating mode once complete.

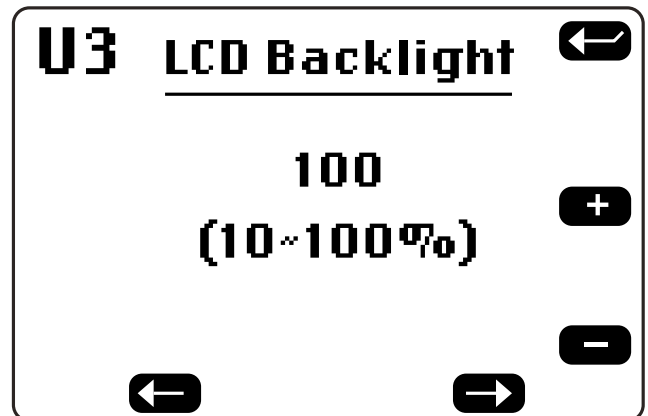


ITEM	DESCRIPTION	INITIAL VALUE
1/4	Clock 24, 12	24
2/4	Speed km/h, mph	km/h
3/4	Odo km, hrs	km
4/4	Temp °C, °F	°C

## LCD PANEL BACKLIGHT

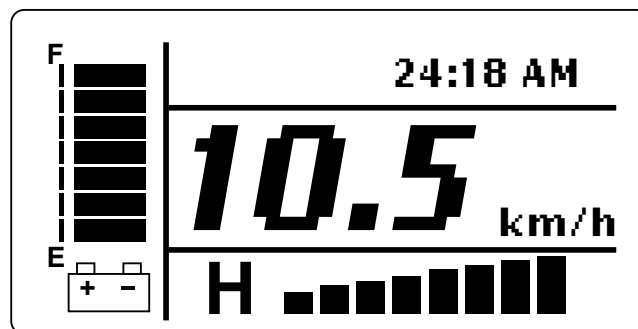
1. Press & hold the [Tortoise] [Hare] buttons simultaneously.
2. Whilst holding the [Tortoise] [Hare] buttons, switch [ON] the scooter.  
  
"U1" Buzzer Volume will appear on the tiller display.
3. Press the [MODE] button to cycle to "U3 LCD Backlight".
4. Adjust the setting using the [Headlight] & [Right Indicator] Buttons.
5. Press the [MODE] button to save the setting, alternatively, do not press any button for 15 seconds to save your settings.

The tiller display will return to its normal operating mode once complete.



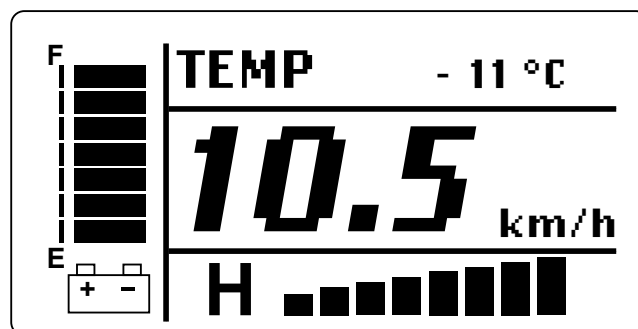
## CHANGE TIME DISPLAY

1. Switch [ON] the scooter.
2. Press the [MODE] button to cycle through the display settings until [TIME] is displayed.
3. Press & hold the [Tortoise] [Hare] buttons simultaneously for three seconds.
4. Increase/decrease digits using the [Left Indicator] [Right Indicator] buttons.
5. Press the [MODE] button to save the setting.



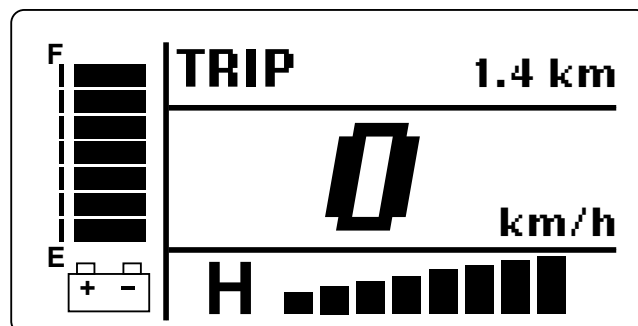
## CHANGE TEMPERATURE DISPLAY

1. Switch [ON] the scooter.
2. Press the [MODE] button to cycle through the display settings until [TEMP] is displayed.
3. Press the [Tortoise] or [Hare] buttons to cycle between Celsius and Fahrenheit settings.



## RESET [TRIP] DISPLAY

1. Switch [ON] the scooter.
2. Press the [MODE] button to cycle through the display settings until [TRIP] is displayed.
3. Press & hold the [Tortoise] [Hare] buttons simultaneously for three seconds to reset the [TRIP] meter.



## MAINTENANCE REMINDER

Set a maintenance reminder at regular intervals.

The tiller display will flash for one minute before turning off automatically.



**SUGGESTION** The scooter can still be operated as normal when the maintenance reminder is flashing.

1. Press & hold the [MODE] and [Left Indicator] button simultaneously.
2. Whilst holding the [MODE] [Left Indicator] buttons, switch [ON] the scooter.
3. Adjust the setting using the [Headlight] & [Right Indicator] Buttons.
4. (Optional) Erase the current setting by pressing the [HARE] button.
5. Press the [MODE] button to save the setting, alternatively, do not press any button for 15 seconds to save your settings.
6. The tiller display will return to its normal operating mode once complete.



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## OPTIONAL EXTRAS

### MOBILITY SCOOTER ALARM

Keep your mobility scooter safe with the mobility scooter alarm.

Contact CareCo for more information.



### STRETCHTEC MOBILITY COVER

Protect your mobility scooter with the StretchTec Mobility Cover.

Contact CareCo for more information.



### DELUXE SCOOTER ACCESSORY PACK

The essential accessory pack for your mobility scooter.

Contact CareCo for more information.



## LOOKING AFTER YOUR MOBILITY SCOOTER

### CLEANING

Clean the scooter at regular intervals to prevent poor driving performance, and unwanted dirt build up. Use the guides below to keep the scooter in showroom condition for years to come.

The images provided are for visual reference only.

### QUICK CLEAN (RECOMMENDED AFTER EACH JOURNEY)



#### You will need:

Hand Towel

Soft Bristle Brush

1. Loosen any dirt/debris from the scooter using a soft bristle brush.
2. Wipe over the scooter with a hand towel/microfibre cloth.



**SUGGESTION** Regular cleaning & maintenance can help prolong the scooters lifespan.

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## DEEP CLEAN (RECOMMENDED MONTHLY)



### You will need:

Hand Towel

Soft Bristle Brush

Sponge

Mild Soap/Detergent

Bucket

1. Loosen any dirt/debris from the scooter using a soft bristle brush.
2. Add a small amount of soap/detergent to a bucket, then fill it with warm water.
3. Dip the sponge into the soapy water, then wring it out until damp.
4. Wipe over the product from top to bottom with the sponge.
5. Empty the bucket and refill it with warm water.
6. Dip the sponge into the water and wring it out until damp.
7. Wipe down the product from top to bottom with the sponge to remove any soapy residue.
8. Dry the product thoroughly with a hand towel/microfibre cloth.



**WARNING!** Do not use bleach or strong chemicals to clean the scooter.

Ensure the scooter is switched [OFF] and disconnected from the mains prior to cleaning.

## MAINTENANCE

Your scooter is made up of components which over time will become susceptible to wear and tear.

Knowing how to properly care and maintain your scooter will not only ensure peak performance and safe operation but will also help to maintain operation for years to come.

## MAINTENANCE SCHEDULE

Carry out regular inspections to keep the scooter in optimum condition.

COMPONENT	INSPECTION DESCRIPTION	AT ANY TIME	WEEKLY	MONTHLY	QUARTERLY
TILLER CONTROLS	Ensure the tiller controls function as intended.	○			
DRIVE/BRAKE SYSTEM	Ensure the scooter moves normally and the brake is responsive.	○			
CONNECTIONS	Ensure the scooter connections are free from damage and corrosion.	○			
TYRES	Ensure tyres have sufficient tread and are in a good condition.				○
FRAMEWORK	Ensure the framework is clear from debris and damage.	○			
FASTENERS	Ensure all fasteners are tight and components are not loose.			○	
WHEELS	Ensure the wheels are aligned and drive straight.				○
UPHOLSTERY	Check for wear and tear.		○		
OVERALL	Overall check for wear and residue build-up. Cleaning if required.			○	

## REPAIRS

Certain scooter components can be repaired by the user with guidance provided by CareCo.

Other components can only be repaired/replaced by a service technician.

If for any reason the scooter requires repair due to a defect, contact CareCo immediately.

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## TROUBLESHOOTING

Your Abilize Ranger-Li features an automatic fault warning function. If there is an internal issue with the scooter, the tiller display will flash, and the horn will sound.

FLASH CODE	POSSIBLE CAUSE	POSSIBLE REMEDY
E02	The battery voltage is too low.	Charge the batteries for 6-8 hours.
	The battery and/or its associated wiring has a fault.	Contact CareCo.
E03	The battery voltage is too high.	<ol style="list-style-type: none"> <li>1. Switch [OFF] the scooter.</li> <li>2. Wait for 60 seconds.</li> <li>3. Switch [ON] the scooter</li> </ol>
E04	The motor has overheated.	<ol style="list-style-type: none"> <li>1. Switch [OFF] the scooter.</li> <li>2. Wait for 10 minutes.</li> <li>3. Switch [ON] the scooter.</li> </ol>
	The motor and/or its associated wiring has a fault.	Contact CareCo.
E05	The scooter is in [FREEWHEEL] mode.	<ol style="list-style-type: none"> <li>1. Switch [OFF] the scooter, then remove the key.</li> <li>2. Place the scooter in [DRIVE] mode.</li> <li>3. Insert the key, then switch [ON] the scooter.</li> </ol>
	The brake and/or its associated wiring has a fault.	Contact CareCo.
E06	The charger is connected to the scooter.	<ol style="list-style-type: none"> <li>1. Switch [OFF] the scooter, then remove the key.</li> <li>2. Disconnect the charger.</li> <li>3. Insert the key, then switch [ON] the scooter.</li> </ol>
E07	The throttle lever is being obstructed.	<ol style="list-style-type: none"> <li>1. Switch [OFF] the scooter, then remove the key.</li> <li>2. Release the throttle lever obstruction</li> <li>3. Insert the key, then switch [ON] the scooter.</li> </ol>
	The throttle and/or its associated wiring has a fault.	Contact CareCo.
	The speed potentiometer and/ or its associated wiring has a fault.	Contact CareCo.
E08	The motor and/or its associated wiring has a fault.	Contact CareCo.
E09	The controller and/or its associated wiring has a fault.	Contact CareCo.



**SUGGESTION** It is normal for the scooter to make audible noise whilst in use, if you notice an unusual noise, contact CareCo.

## WARNINGS & TECHNICAL INFORMATION

### SPECIFICATIONS

OVERALL LENGTH (MM)	1600
OVERALL WIDTH (MM)	720
OVERALL HEIGHT (MM)	1395
FRONT WHEEL DIAMETER (IN)	15
REAR WHEEL DIAMETER (IN)	15
TOTAL WEIGHT INC BATTERIES (KG)	125
MAXIMUM SPEED (MPH)	4/8 SWITCHABLE
MAXIMUM REVERSE SPEED (MPH)	2.2
REVERSING WIDTH (MM)	3470
WEIGHT CAPACITY (KG)	181
GROUND CLEARANCE (MM)	110
MAXIMUM CLIMBABLE ANGLE (°)	10
MAXIMUM CURB HEIGHT CLIMBABLE (MM)	100
TURNING RADIUS (MM)	1860
SUSPENSION (YES/NO)	FRONT & REAR
ALL SEAT HEIGHT OPTIONS (MM)	670/695/720
SEAT WIDTH (MM)	520
SEAT DEPTH (MM)	480
SEAT WEIGHT (KG)	20
BATTERY SPECIFICATION	100AH/1280WH X2 260MMX168MMX215MM
MOTOR SPECIFICATION	700W 3650RPM
CHARGER SPECIFICATION	12A
CONRTROLLER SPECIFICATION	DYNAMIC RHINO II 160A
BATTERY WEIGHT (KG)	20
MAXIMUM POTENTIAL RANGE (KM)	80
STOPPING DISTANCE FROM MAX SPEED (MM)	3000
MAX/MIN OPERATING TEMPERATURE (°C)	65 / -40
MAX/MIN STORAGE TEMPERATURE (°C)	50 / -40
TYRE TYPE	PNEUMATIC
TYRE PSI	36
EXPECTED SERVICE LIFE (YEARS)	5
VM RESISTANCE RATING (EM IMMUNITY)	20V/M

The maximum weight limit for this product includes both the user and any other accessories fitted to the scooter.

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## ELECTROMAGNETIC INTERFERENCE (EMI)

Powerchairs and mobility scooters may be susceptible to electromagnetic interference (EMI).

Electromagnetic energy (EM) is emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones.

The interference (from radio wave sources) can cause the powerchair/mobility scooter to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powerchair/mobility scooter's control system.

Each powerchair/mobility scooter can resist EMI up to certain intensity. The intensity of the interfering EM energy can be measured in volts per meter (V/m).

If the scooter is operating abnormally, turn off the scooter and/or the equipment that is believed to be causing the interference.



**WARNING!** Do not operate portable personal communication devices, such as citizen band (CB) radios and mobile phones when the scooter is powered [ON].

If use of a personal communication device is required, ensure the scooter operates as intended.

Avoid using the scooter near transmitters, such as radio or television stations.

Adding unauthorised accessories, parts, or modification can make the scooter more susceptible to interference from radio wave sources.

The immunity level of this mobility scooter is 20 V/m.

## **PROGRAMMING**

The scooter can be programmed using computer-based software and/or using a handheld programming device.

Programming should only be completed by a qualified service technician. Unauthorised modifications will affect driving performance and other parameters.

## **PRODUCT RE-ISSUING**

Ensure the product is safe and functions as intended before re-issuing.

## **RECYCLING & DISPOSAL**

Scooter components should not be disposed of with normal household waste as they can cause harm to the environment.

When disposing of the scooter and/or its components, users should follow Waste Electrical and Electronic Equipment policies (W.E.E.E).

For battery disposal, users should follow local disposal/recycling regulations.

Contact CareCo if further advice is needed regarding recycling & disposal.

## **INTENDED USE**

To aid a user with mobility limitations to move around independently and safely.

## **INTENDED USER**

This product is intended for users who experience difficulty in walking and/or have reduced mobility.

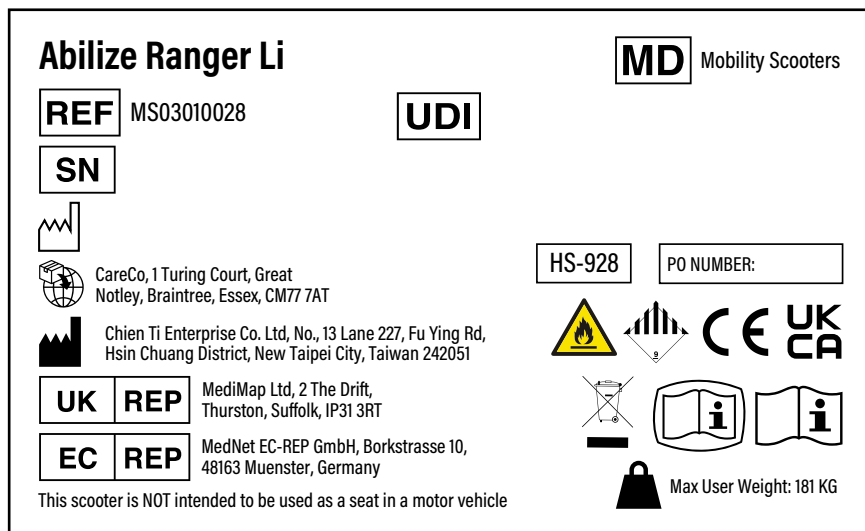
## **INTENDED ENVIRONMENT**

This scooter is intended for outdoor use only.











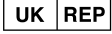


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## PRODUCT IDENTIFICATION


The product identification label is located on the seat post.



## DEFINITIONS

	Model number		Refer to instruction manual
	Batch code		Caution
	Date of manufacturer		Indicates electrical / electronic equipment must be disposed of in accordance with the WEEE regulation.
	Manufacturer's address		Keep away from rain
	Product expiry date		Keep away from sunlight
	UK responsible person		
	UKCA Mark		
	Non sterile		

## GENERAL WARNINGS

- Take appropriate safety measures and obey local pedestrian traffic rules. CareCo are not responsible for personal injury and/or product damage caused by improper use.
- Use safety equipment such as reflectors, reflective clothing, and lighting when in low lit areas.
- Consult a healthcare professional regularly to ensure that there are no health/physical conditions that limit or compromise the user's safety when using the scooter.
- If the user is taking over-the-counter medications, prescriptions or if physical activity is limited, please consult a physician. Some medications and medical conditions may limit the user's ability to operate the scooter.
- Do not operate the scooter after consuming alcohol as this can affect the safe operation of the scooter.
- Do not use the scooter for any other purpose other than its intended use. Incorrect use of the scooter can cause a safety hazard to the product and the user.
- This scooter is intended for one user at a time. Do not exceed the maximum load weight of 181kg.
- Do not place the scooter in FREEWHEEL mode when on an incline.
- Switch [OFF] the scooter when sat in a fixed position for extended periods of time.
- Avoid using accessories that could interfere with the safe operation of the throttle.
- Do not alter the products wiring.
- Prolonged exposure to hot and cold environments may damage the scooter's upholstery and electrical components.
- Keep body, clothing, and any other objects away from moving parts to avoid trap hazards.
- Prolonged storage at low or high temperatures can damage the scooter.
- Do not transport the scooter or battery with combustible materials.
- This product cannot be used as a seat in a motor vehicle. 
- Ensure the scooter is in Drive mode before operating.
- Be aware of surroundings at all times when using the scooter.

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## **EXPECTED LIFETIME**

The Expected Lifetime is the estimated period of time for which the scooter is expected to function according to its intended use.

Various items such as weight capacity, user behaviour, external conditions and intensity of use can affect the expected lifetime.

### **WEIGHT CAPACITY:**

If the user exceeds the weight limit specified, it may affect the scooter's expected lifetime.

### **EXTERNAL CONDITIONS:**

Extreme temperatures, humidity and exposure to harsh weather conditions can accelerate the deterioration of the scooter.

### **USER BEHAVIOUR:**

Using excessive force, rough handling or dropping components can significantly shorten the scooter's expected lifetime.

### **USAGE:**

A scooter that is used daily may experience more wear and tear compared to a scooter that is used occasionally.

The expected lifetime for the scooter is 5 years providing the instructions and information within this user manual are followed.

Regular cleaning, lubrication of moving parts, and tightening of loose fixings will prevent premature wear and damage and extend the product's lifetime.

The expected lifetime is not related to the product warranty.

## **WARRANTY**

If a component requires repair or replacement due to a specific manufacturing or material defect within its warranty period, it will be repaired or replaced free of charge by CareCo.

- **FRAME: 3-YEAR WARRANTY**
- **ELECTRONIC COMPONENTS: 1-YEAR WARRANTY**
- **BATTERY: 2-YEAR WARRANTY**

Consumables are not covered under normal warranty circumstances unless they have clearly suffered excessive wear or damage as a direct result of a manufacturing defect. These items include grips, tyres, and rubber accessories.

The guarantee for the scooter is not transferable.

Parts that have been previously replaced that require subsequent repair or replacement due to manufacturing defects will be honoured for the remainder of the scooter's warranty period.

Parts that have been purchased by the end user after the original warranty period has expired have a warranty period of 12 months.

CareCo is not responsible if the scooter requires repair or replacement as a direct result of:

- Changes or modifications made to the product that fall outside of the manufacturer's specifications.
- The product not being serviced or maintained according to the manufacturer's recommendations contained in this user manual.
- Negligence, Accidental Damage, and Improper use.
- Repairs attempted before CareCo have been notified.
- The product being purposely damaged or mistreated.

In the unlikely event that this product is recalled, CareCo will notify the user.

Please ensure that your contact information is up to date.

Alternatively, please visit our website for any product alerts: [www.CareCo.co.uk](http://www.CareCo.co.uk)

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## NOTES



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