

ARVALA

ELECTRIC SCOOTER MANUAL

This manual includes the most up-to-date product information for your Arvala electric scooter available at the time of printing. However, the appearance and setup of your Arvala scooter may differ from the details provided in this owner's manual. For the latest updates and additional information about your Arvala scooter, we invite you to visit our website. This manual is designed to enhance your understanding of the Arvala electric scooter. Before you embark on your riding journey, please take the time to thoroughly read this manual and all the Arvala safety labels to ensure a safe and enjoyable experience.

ARVALA SCOOTER TECHNOLOGY LIMITED

Version:AVL-EN-V1.0.0



INTRODUCTION

Congratulations on choosing your Arvala electric scooter.

When you own an Arvala M10, M11, M10-Pro, or C-Pro, you are part of a worldwide family of satisfied customers - people who appreciate Arvala's commitment to quality in every product.

Your Arvala scooter is a high-performance off-road vehicle that utilizes the latest technology and is designed for competition use in sanctioned, closed-course events by experienced riders only.

Be aware that off-road racing is a physically demanding sport that requires more than just a fine electric scooter. To excel, you must be in excellent physical condition and be a skillful rider. To achieve the best results, diligently work on your physical conditioning and practice frequently.

Before riding, take time to get acquainted with your Arvala scooter and how it operates. To protect your investment, we urge you to take responsibility for keeping your Arvala scooter well maintained. Scheduled service is essential, of course. But it's just as important to observe the break-in guidelines and perform all the pre-ride and other periodic checks detailed in this manual.

You should also read the owner's manual before you ride. It's full of facts, instructions, safety information, and helpful tips. To make it easy to use, the manual contains a table of contents and a detailed list of topics at the beginning of each section.

If you have any questions, or if you ever need special service or repairs, remember that your dealer knows your Arvala scooter best and is dedicated to your complete satisfaction

Enjoy riding!

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1) What's in the Box



2) How to Assemble



Insert the handlebar into the stem

Align the screw holes

Tighten the screws

1) What's in the Box



2) How to Assemble



Center the handlebar



Secure the handlebar with the stem and 4 screws

1) What's in the Box



2) How to Assemble



Center the handlebar



Secure the handlebar with the stem and 4 screws

1) What's in the Box



2) How to Assemble



Insert the handlebar into the stem

Align the screw holes

Tighten the screws

Unfold & Fold

1) Unfold



Stand the stem upright



Secure the folding wrench at the lower position.



Press down firmly on the folding lever (ensure the rotary knob is popped out)



Pull and rotate the rotary knob to lock it in place (non-popped position).

2) Fold



Pull up the latch (popped-out)



Forcefully open the wrench



Release the lower lock



Fold down the stem

Unfold & Fold

1) Unfold



Pull up the stem



Hook the silver folding latch



Press the wrench



Tighten the silver screw.

2) Fold



Loosen the silver screw



Pull open the wrench



Unhook the silver folding latch



Fold down stem



Adjust the height of the stem and secure both hooks

1	2
3	4
5	

1) Unfold



Raise the stem & will hear a click



Press down the green wrench

2) Fold



Position your finger



Lift the latch



Pull out the green wrench



Pull out the black pin



Fold down the stem

1	2
3	4
5	

3) Download Arvala App

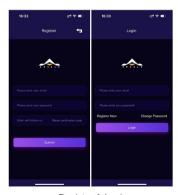






Scan the QR code to download the App

4) Remove speed limit









Register & Login

Bluetooth connect

Advanced Settings Pass code: 2112

Speed Limit: 100

Remove speed limit

1) Remove speed limit

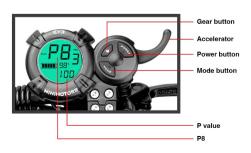


Find out the black wire



Cut the black wire.

3) Remove speed limit by display setting



If you can't find the black wire, follow these steps to remove the speed limit

2) Remove speed limit



Loosen the 12 screws



Open the deck and unplug red connector

Operate:

- 1. Long press the power button for 2-3 seconds to turn on the display.
- 2. Long press the mode button for 2-3 seconds to enter the P setting.
- 3. Short press the mode button to change to P1, P2, ... P8.
- 4. Short press the gear button to change the P value; set it to 100.

Charger and Unlock

5) Charge scooter



Connect the adapter cable



Plug the charger into the scooter's charging port



Charger light red: charging



Charger light green: charged

6) Connect NFC power cable



(1)



Align the arrows on the two connectors before plugging them in.



(2)

7) Unlock NFC reader



NFC reader



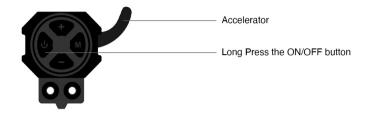




indicator lights up

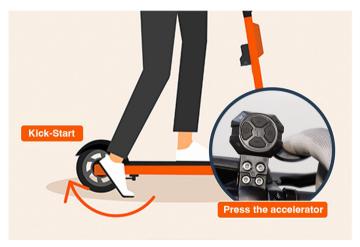
Turn on the display & Get to ride

8) Turn on display and kickstart





Display come up



Kick-start get to ride

Before Reading the Manual

This manual contains important information to help you to use your product more safely. For your safety, there are warnings of 'Danger', 'Warning', and 'Caution' depending on the degree of danger and the meanings are below.



Indicates a hazardous situation that will result in serious injury.

Indicates a hazardous situation that could result in serious injury.

Indicates a hazardous situation that couldresultin minor or moderate injury.



Please read this manual carefully before using this product

1) Generalsafetyguidelinesandrestrictions

Even if the it is within the warranty period, you may be liable for any accident caused by any of the following causes.



Be careful of water!

This product and components are not waterproof. Don't let the water get into the product and components.

*Never use it, if the road is wet due to the rain, snow, hailstone.

*If you wash or spread water to electric devices, it can result in malfunction or fire.



Beware of folding and spinning parts!

If parts of the body, as a finger or hair, get caught in the spinning or folding parts of the product, this may lead to severe injuries. Please be careful.



No acrobatics

Stunts and jumps such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause of malfunction and accidents.



No companion boarding

This product is intended for one adult only, so children, infants, or two people are prohibited from boarding.



Don't tune by yourself

Do not open or tune the electric parts (battery, controller or motor system.



No companion boarding

Unlicensed, driving after drinking, loading cargo on the scooter is prohibited. (More than bike or bicycle license is required) Please comply with the Road Traffic.Act and related laws and regulations according to the place of use.



Beginners and seniors are encouraged to use at low speed

Beginners who are not accustomed to use the product, seniors and others should avoid high speed mode driving and recommend low speed driving. In addition, please use after practice how to ride safely in a wide place.



Do not sudden brake with front brake

If there is a risk of overturning, sudden deceleration should be done safely. Do not apply any unusual behaviors or artificial forces, such as stopping with your feet.



Do not drive on steep slopes

Acceptable gradeability is different for each product. Excessive hill roads exceeding the specification may cause damage to the product (parts) due to temperature cut, overcurrent, or low voltage cut, which may cause the product to malfunction.



Safety warning when lifting the product

Please always lift the product with at least one other person.

When lifting the product, please be careful not to damage your back or knees.



Be sure to wear safety equipment

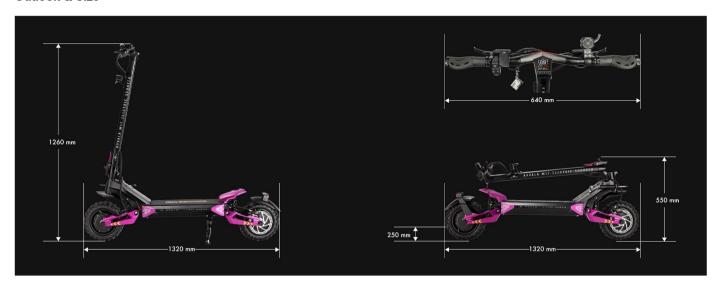
For the safety of passengers, be sure to wear a full face helmet and the other protective gear (for knees, elbows, hands, upper body) and do not wear shoes such as slippers or high heels that can interfere with driving.

2)Precaution before driving

- 1. Avoid night driving at all times. Always wear helmets and other body protection to drive safely.
- 2. Select the driving mode that suits you. Be prepared to slow down by holding the brake at all times to cope with sudden situations.
- 3. When turning left or right, slow down to avoid the risk of overturning or slipping, then proceed to turn safely.
- 4. To reverse safely, only get off the product after coming to a complete stop.
- 5. It is prohibited to use the product in any places that are slippery, crowded, have a steep slope, or are uneven.
- 6. When crossing a pedestrian crossing, dismount from the product for pedestrian safety.
- 7. Do not drive in a manner that threatens other means of transport, such as animals, pedestrians, bicycles, motorcycles, cars, etc.
- 8. When passing speed bumps and road obstacles, be sure to slow down.
- 9. When decelerating or braking, do not stop with your foot, but rather use the brake appropriately.
- 10. Be cautious as there is a risk of burns due to heat from the motor and brake (especially disc rotor) after driving.
- 11. Do not drive by holding the handle with one hand; please use both hands at all times.
- 12. Do not ride or drive with the kickstand down.

Product structure

Outlook & Size





Components Overview





Display Interface Overview



Throttle Button Operation Instructions

Power Button(Φ): Long press for 3 seconds to power on. After power-on, the full screen lights up for 1 second, then enters normal display. Long press for 3 seconds to power off. The display screen goes out, all power is cut off, and the device enters sleep mode.

Mode Button (M): When not in the setting mode, short press to cycle through the following displays

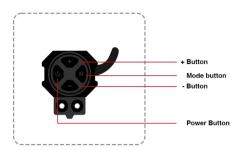
- Display Time: "TIME" icon lights up. HH:MM with the colon blinking at intervals of 500MS.
 The maximum display is 99:59.
- Display Total Mileage: "ODO" icon lights up. Displayed in five digits, units can be in miles or kilometers.
- Display Single Mileage: "TRIP" icon lights up. The counter resets to zero every time the device is powered on. The units match the current setting.
- Display Voltage: "VOL" icon lights up. XX.XX with a maximum display of 99.99V.
- Display Battery: Battery icon lights up. XX with a maximum display of 99V.

Note: mph is miles per hour, km/h is kilometers per hour. 1 mph = 1.609344 km/h and 1 km/h = 0.6213712 mph.

- +/- Button: When not in the setting mode, short press to cycle through gear positions.
- The device cycles through the following gears: E,1, 2, 3, 4, 5

Enter Settings: Double press the "M" Button to enter settings.

- In settings, speed is displayed as P0--P5, flashing display. Press the up or down key to cycle through the options.
- When setting PX, short press the "M" Button to enter, then use the +/- key to adjust.
- After the settings are correct, long press the "M" Button to save and exit.
- P0-> Adjust brightness, with 1 2 3 corresponding to low, medium, and high brightness levels.
- P1-> Adjust distance units, kilometers or miles.
- P2-> Adjust auto power-off time, the device will auto power-off if it detects no rotation for at least 5 minutes.
- P3-> Adjust battery pack specifications, 48V or 72V. Currently this does not have a function, as battery information is read from the serial port.
- P4-> Check the display screen software version, currently version 18.
- P5-> Auto reset, the device will power off and enter sleep mode immediately after selection.





How to use the charger correctly

1) Basic charging method

- 1. Open the charger port cap and connect it to the connector of the charger and connect it to the household outlet.
- 2. Charging status indicator:
 - Red: Charging
 - Green: Charging complete
- 3. Be sure to close the charger port cap when driving or storing except when charging.
- When connecting the connector to the charger port, there may be metallic sparks due to voltage difference, but this
 is normal.

2) Basic charging method

* Failure of the charger and abnormal conditions can cause electric shock and fire. Learn the correct usage and prevent safety accidents in advance.



Manufacturers and sellers are not responsible for any problems arising from any disassembly, modification, or mixing with other chargers.



The charger is forbidden to be used in places subject to high humidity, heat, flammable materials, confined spaces, or where there is no ventilation such as in a car.



The charger is not waterproof. It is thoroughly controlled to prevent moisture from entering the charger.



Children and pets should not be allowed to approach the charger when they come into contact with them, as they may cause anelectric shock.



If the charger lamp does not light, charger fall down, strong external shock, long time charge, or cable cover damage, discontinue use immediately and contact the service center



Unplug the charger when you are away from the home for long periods.

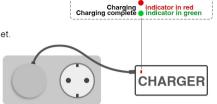


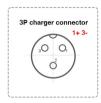
· Use only genuine charger.

- . Do not insert conductors into the charging port.
- Do not touch the plug for about 10 seconds after unplugging the charger. There is a risk of electric shock from instantaneous discharge.
- Do not remove the terminal during charging. Otherwise you may charge the internal circuit of the charger and cause malfunction.
- Do not operate the product during charging.

- Charging terminals should be firmly contacted during charging and should not be used if terminals are corroded or damaged.
- When disconnecting the charger from the product, it is safe to hold the terminal without.
- · holding the wire.

- Be sure to keep the charger disconnected from the product after the charging is complete.
- The charger must be disconnected if it is not used for longer than a few days, as there is a risk of overcharging when charging more
- · than the time indicated on the product specifications.





Safety precautions for Lithium battery

1) Care Lithium batteries should be protected from direct exposure to children and pets.

2) Performance

- 1. The lithium battery is affected by external temperature. In the winter, when the temperatures are low, the performance of the battery may temporarily deteriorate, and both mileage and power output may be reduced.
- 2. The lithium battery has a characteristic where discharge performance is reduced by more than 15% after 300 or more charge/discharge cycles. If the usage time is shortened due to extended use, it should be replaced with a genuine one through the nearest service point.

3) Charging

- 1. Lithium battery should be used only with genuine battery and charger supplied from the manufacturer. Any problems caused by use of battery made by the manufacturer, mixed use, or using the charger are not covered by the manufacturer.
- 2. Charging the lithium battery with a non-genuine charger may cause malfunction or fire.
- 3. The lithium battery should be charged in a well-ventilated, dry place and around the charger in a place where there is no flammable material.
- 4. Lithium battery should be charged at 0 ~ 45°C and discharged within -10 ~ 60°C. The sub-battery must be charged at 0 to 50°C and discharged within -20 to 75°C. Charging or discharging at a temperature outside this range may cause malfunction, fire or explosion.
- 5. In case of moving from cold outside to warm indoor, please charge it after 1 ~ 2 hours. This is to prevent condensation from occurring inside the product due to the temperature difference.

4) Storage

- 1. Lithium batteries should be kept away from snow, rain and direct sunlight. Do not store or charge them in a trunk or hot room. Select a dry place and store at room temperature (10 ~ 20).
- 2. When storing for more than 3 months, charge the remaining battery level to 70 ~ 80% (do not store full charge).

5) Trouble symptom, safety

- 1. Lithium battery should be discontinued immediately if it is damaged or there is leakage of battery, sour odor, appearance deformation, etc. Please contact the place of purchase to get technical support and service.
- 2. If overheat, smoke, or ignition is detected in a product with lithium battery, immediately stop charging and use, move the product outdoors as soon as possible, and then use a fire extinguisher to extinguish flames. Do not spray water or immerse the product in any situation, which can lead to more danger.
- 3. Lithium battery pack has very high energy density, so if you charge the battery for a long time and there is a case of short-circuit, leakage, bad battery, etc., it can lead to ignition.

Therefore, you should avoid charging for a long time without a person being present to avoid the risk of unexpected fire.

6) Misuse

If the lithium battery is short-circuited, the polarity is changed, or if the battery is impacted, malfunction or fire may result.

If you think that the battery has been impacted, you should stop charging and using it and visit the nearest service center for inspection.

7) Water inflow

It should be controlled to prevent water inflow into the lithium battery. There is a risk of fire or electric shock if the charger is connected while moisture is present.

8) Caution

Disconnect the battery from the main unit except when recharging and reinstalling. Do not use for any other purpose.

9) Disposal

When disposing of the lithium battery, the battery should be separated from the product at the point of purchase or near the service center and the charge and discharge terminals are not short- circuited. Dispose of it as industrial waste.

Battery disassembly prohibited

Battery disassembly, modification, and repair are not covered under warranty.

Safety guidelines before driving

1) Required checking before use

- Check throttle and handle

Operate the accelerator throttle lever about 2~3 times to check whether it returns to the home position

Be careful that excessive throttle leaning and manipulation of the throttle can cause malfunction due to internal

parts damage.

Check for free gap in the handlebars before using.

- Check brake and cable

If the brake braking force is sufficient to check the operating condition

The braking force is significantly lowered, use it immediately after inspection and action.

Check that the brake pad is not worn, that the cable is not loose, that the cable is not damaged, and that there is no leakage in the case of hydraulic brakes.

If there is an unusual feeling or noise during operation, check for breakage, wear, and deformation of the inner wire of the brake cable.

Check that the bolts and nuts of the brake fixing parts are not loose and that the disc is not deformed or damaged.



1) Required checking before use

- Check tire pressure and abnormal tread wear

Check the front and rear tires for wear and punctures and check the value marked on the surface of the tire.

When the air pressure is shortened, the possibility of puncture increases, so check always.

It is necessary to judge the replacement time by observing the appearance of the tire such as tire damage, uneven wear.

- Tightening check such as folding part and handle part

Make sure that the bolts and nuts of all parts of the product are tight and safe fromloosening. Check the fastening condition and clearance of the folding and fixingparts of the handle (folding knob, swing arm, etc. folding related parts, suspensionarm bolt, swing arm bolt).



In these cases, stop driving immediately.

If you encounter any of the following situations while driving, stop driving immediately and contact your nearest branch or service center for proper measures.

If you provide pictures and videos to get an accurate diagnosis, professional counseling is available.

Unusual heating of the motor

Brake braking status error

Error messages on the instrument panel

When the throttle is not returned to its original position

When the battery doesn't fully charge and shorter riding distance after a full charge

Battery explosion may cause due to faulty battery cell or battery cell breakdown

Abnormal noise is generated

Product smoke, ignition, sour door

When rain or wet with water or in a similar situation

When other driving is judged to be unreasonable

Check and Maintenance

1) Maintenance and self-maintenance

Electric products can be damaged by various factors.

The life span of each part varies depending on driving habits and driving environment.

Parts that exceed the service life may cause accidents.Let's manage various parts and prevent safety accidents in advance.

2)Check the replacement timing of consumable parts

The components and suspension parts of the swing arm, tires, wheels, bear- ings, discs, brakepads, cables and folding parts, various brackets and other consumable parts require periodic inspection and must always be checked.



3)External damage inspection by driving environment

- 1 Replace parts that may be damaged by the external driving environ-ment, such as deformation of parts or tiny cracks due to pressure.
- 2 If the product is exposed to strong sunlight for a long time, discoloration may occur.
- 3 Incase ofjumps, slightimpacts suchas turning, collision, etc., whendriving- frequently or for a long time in a poor road condition or driving for thousands of kilometers or more, fatigue breakdown phenomena may happen so please check the parts replacement schedule for each product and replace accordingly for safety.
- 4 Fatigue breakdown and maintenance parts may differ from the example conditions depending on the driving environment and the operating conditions. Also check parts other than the replacement cycle (maintenance parts) at all times to check for any signs of abnormality.

Important check list

- * Metal vibration may occur due to motor vibration and the vibration of the brake disc and pad during the load section that accelerates during driving. (About 15 ~ 30Km, different for each product) This is a phenomenon in which all rotations (fans, automobiles, ships, etc.) are vibrating at a specific rotational frequency (rpm) rather than the product. However, if the continuous noise or metal noise is large, there is a possibility that the disk will become bent and deformed.
- * Please note that after running, there is a risk of burns due to the heat on the motor and brake (especially disk rotor) side.
- * Be careful that the bolts of the motor, rim, and motor shaft may become loosened due to the ABS function.
- * For inspection and repair, remove the side cover, attach the power switch, and attach it with the product's standard bolt. When tightening, carefully remove the cover of the wiring. Bolts other than the rule bolts (long bolts) can cause serious damage to the battery casing (battery cells), which can cause fire or safety accidents.
- * Folding parts and joints where movement occurs due to product characteris- tics can naturally damage the surface or paint surface during use, especially when operating in incorrect operation and form.
- * When inspecting the product, keep two wheels away from the ground and work on a safe workstation



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