大阳电动车
DAYANG

Operator's Manual

Drive to a better life

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	WARNING! Read and understand all safety precautions in this manual before operating. Failure to comply with instructions in this manual could result in personal injury, property damage, and / or voiding of your warranty.
	WARNING! It is your responsibility to know and obey all applicable local, state, and federal laws at all times while operating this vehicle including but not limited to traffic safety, vehicle registration, emissions, and noise.

Safety Guidelines - Definitions

This manual contains important information that you need to know and understand in order to protect YOUR SAFETY and to PREVENT EQUIPMENT PROBLEMS. The following symbols help you recognize this information. Please read the manual and pay attention to these sections.

	DANGER: Dangers indicate a certainty or strong possibility of personal injury or death if instructions are not followed.
	WARNING: Warnings indicate a strong possibility of equipment damage or possibility of personal injury if instructions are not followed.
	CAUTIONS: Cautions indicate a possibility of equipment damage if instructions are not followed.

WARNING! Improper operation or maintenance of this vehicle could result in serious injury and property damage. Read and understand safety instructions tips and operating instructions before using this vehicle. Always obey all applicable local, state, and federal laws when operating this vehicle.

Save These Important Safety Instructions!

Read and understand all of these safety instructions. Be sure to retain them for future use.

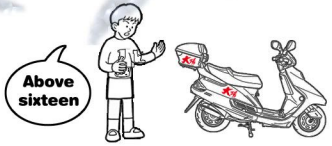
General Precautions

- **Read and follow all instructions in the manual of Dayang products, before attempting to operate this vehicle.** Do not discard this Operator's Manual, or any other material or documentation included with this vehicle.
- **Always perform the daily pre-ride inspection specified in this manual before operating this vehicle.**
- **Modifying the vehicle and/or removing original equipment and/or safety decals could make this vehicle unsafe for operation.**
- **Replace any safety decals that become unreadable or detached from the vehicle. Decals provide critical warnings about potential hazards or safety requirements.**
- **Never use this vehicle for stunt riding, spinouts, donuts, racing, or any form of competition.**

Traffic Safety

Always follow the entire pre-ride checklist prior to starting or operating the vehicle.

Your safety while riding this vehicle depends entirely on your ability to exercise proper judgment. You must be of sufficient age, understanding, mental capacity, and physical capability to safely operate this vehicle.



Always obtain mature, supervised instruction and sufficient practice in an uncongested area before operating this vehicle on any public thoroughfare.

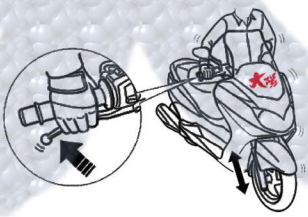
Excessive vehicle speed is a leading cause of accidents, which can cause death or serious harm to you, other people, and/or property. Always obey all applicable traffic safety laws while operating this vehicle, being sure to account for current weather and traffic conditions and slow down if necessary. Drive to arrive!

Traffic Safety

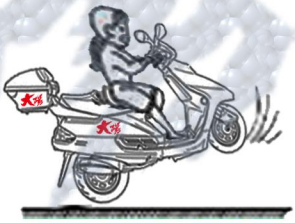
Use extreme caution when riding on wet, slippery, rough, or sloped terrain. There is an increased risk of loss of control, which can result in injury, death, and / or property damage.

Always slow down when turning. High-speed turning can cause loss of control and/or possible death, injury, and/or property damage. Turning on a slope increases the risk of rollover. Practice turning in a safe area away from traffic until you are confident in your ability to control the vehicle at all times.

Stop the vehicle and shut off the motor immediately if the vehicle makes unusual noises or vibrations. Check the vehicle for damage. Excessive noise or vibration is a sign of loose or worn parts.



Never use this vehicle to perform any type of racing, stunt riding, jumps, spin-outs, donuts, or other maneuvers. You could kill or injure yourself or others and/or cause property damage.



Never operate vehicle while under the influence of alcohol, drugs or medication of any kind. Such operation is dangerous to yourself and/or others and may be illegal in your location.

Check tire pressure before operating the vehicle using a properly calibrated tire air pressure gauge.

The manual of digital chip charger

Instruction

1. The Dayang the charger should be matched with the alternating voltage of local power supply before connecting charger.
2. The charger is designed and tested for original battery from manufacturer. Do not use them for the other mismatching batteries.
3. The charger is tested and matched with its bike. If the charger is used on other bike, it might make different charging efficiency.
4. Please connect charger and bike before connect to local power supply, while you are going to charge the battery. Please disconnect the charger from local power supply while the battery is fully charged. Don't disconnect charger and bike while the charger is connected with local power supply for safety reason.
5. Do not violently shake the charger. It might cause damage of the charger.
6. Keep the charger away from any water, dust or high temperature.
7. The charger creates the heat while working. It should be stored in well ventilated place and keep away from any inflammable things.
8. Keep it away from children.
9. If there is any broken wire or shell, please send it to the professional repairing service. Don't open or repair it yourself. This action will cause danger and lose warranty of the charger.
10. The charger is designed and made for electric vehicle battery charging use. Don't make it for other use.
11. Any incorrect usage which does not follow this instruction will lose guarantee from seller.

Using direction

1. Connect the charger with battery. The red light flashes every five seconds to indicate the testing status at the beginning of charging.
2. While the charger is connected to 110V/220V/250V local AC power supply, the red light flashes every one second for charging indication.
3. After 6-9 hours charging, the green light will be on to indicate that battery charging is finished.
4. For the old battery, the charging time will be 2 or 3 hours more. After 6-9 hours charging, the red and green light will flash alternatively, it indicates the battery is charged over 80%. Most of batteries could be charged over 98% after 2 or 3 hours extra charge. (The green light will be on.) But if the battery is ageing badly, it might take a longer time.

Technical features

1. CPU (Digital chip) controls the whole process of charging.
2. CPU will stop charger working while the battery is fully charged or the charger is disconnected with battery.
3. The charger could make battery which is used over 9 months, to restore electric capacity to 75~80% level by recharging and discharging the battery repeatedly in 5-7 times.

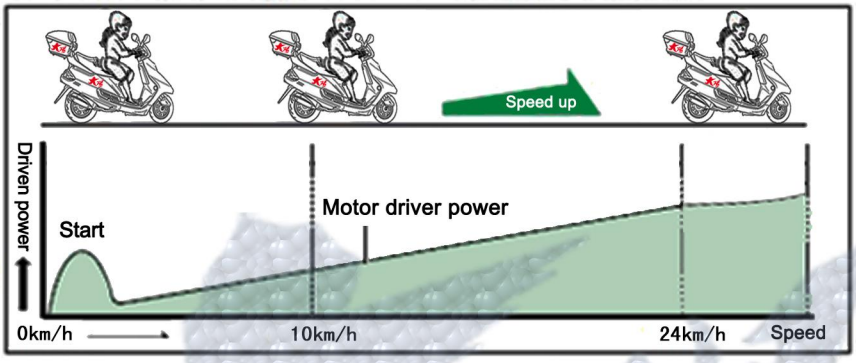
Technical features

No.	Item	Common Charger	Dayang Charger	Explanation
1	Controlling	Electric circuit	CPU	CPU's control is more accurate
2	Output voltage control	Un-adjustable	Adjusted by CPU automaticly	CPU adjusts output voltage to make sure the battery is fully charged
3	Overcharged and Bulged	YES	NONE	CPU will cut off power while the battery is really full charged
4	Undercharged and Vulcanized	Scraped earlier	NONE	CPU controls voltage to compensate to the loss by temperature difference
5	Electrolyte loss	Frequently	NONE	The battery will work out while losing Electrolyte
6	Timely protection	NONE	YES	CPU watches current in the whole charging process
7	Restore capability	NONE	YES	Restore the electric capacity
8	Battery life	80% of designed lifetime	130% of designed lifetime	----

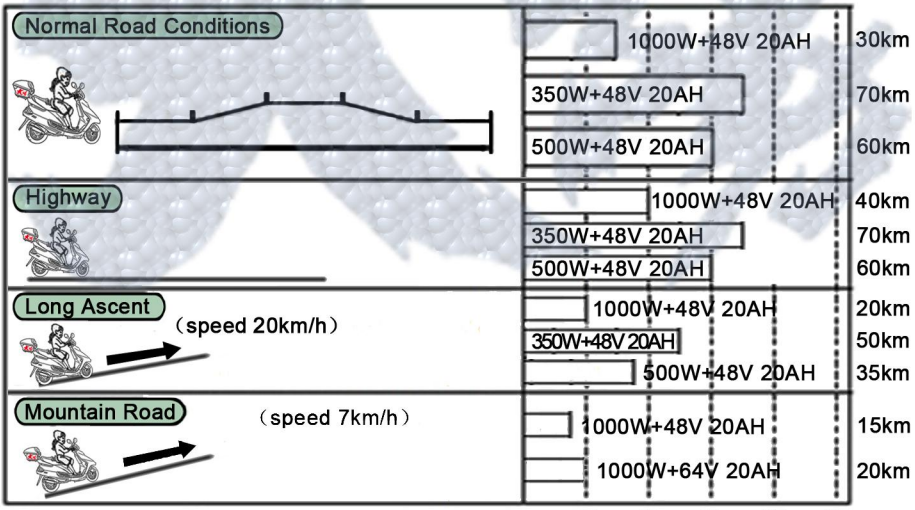
Electric Motor Driven Motorcycle Introduction

The performance of an electric motor driven vehicle is different from gasoline engine driven or human powered vehicles. It's very important to understand how the Dayang electric vehicle works before riding.

The graph of power supply from Electric Motor



The driving range of per charge is different in various road conditions

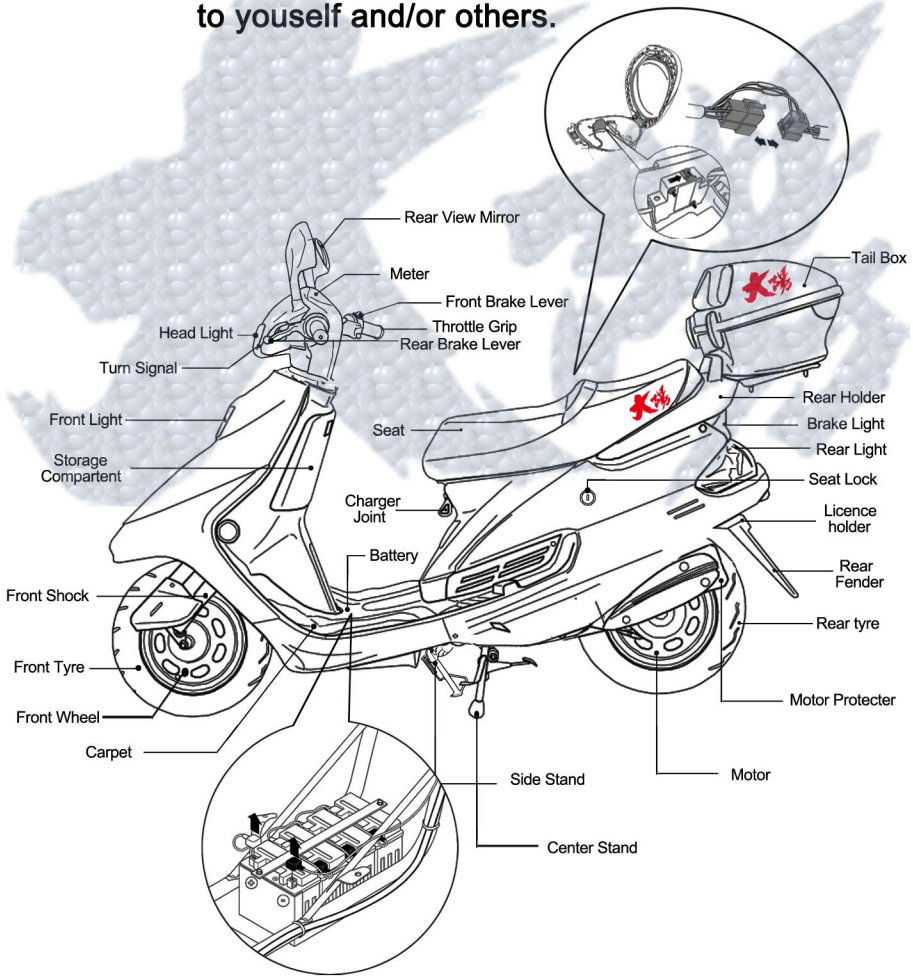


Test condition: New vehicle with new battery, Temperature at 20℃, No wind, All lights (on the vehicle) off, loading weight at 60kg, standard pressure.

1.Driving habbit, Road conditions, environment and temperature might shorten the driving range of per charge.
2.Tyre pressure and loading weight will shorten driving distance of per charge.
3.The driving distance of per charge might shorter in Winter because of battery's peculiarity.
4.Driving distance of per charge will be shortened by battery lifetime loss.

Pre-Ride Checklist

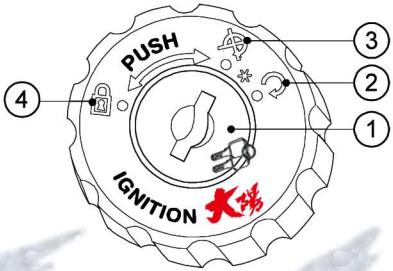
WARNING! Always perform the entire pre-ride checklist before using the vehicle as this can help you spot problems that could interfere with safe vehicle operation. Failure to follow this entire checklist before every ride can cause death, serious injury, and/or property damage to youself and/or others.



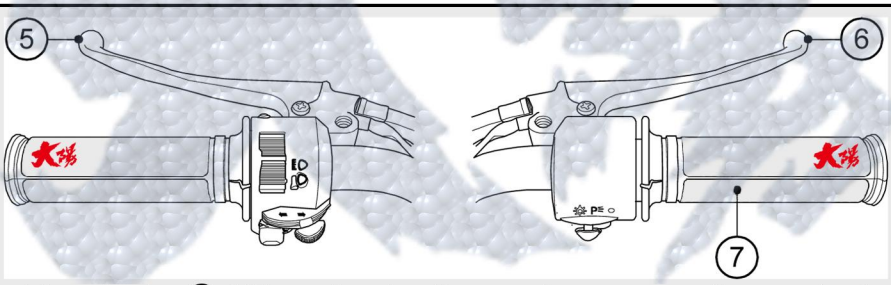
Ignition Switch

The main ignition switch contains three positions:

- **ON ②:** The motor can start; the key ① cannot be removed.
- **OFF ③:** This position shuts off the engine and allows you to remove the key.
- **LOCK ④:** From the OFF position, push inward and turn the key counterclockwise to the LOCK position while turning the steering steering lock. Remove key.



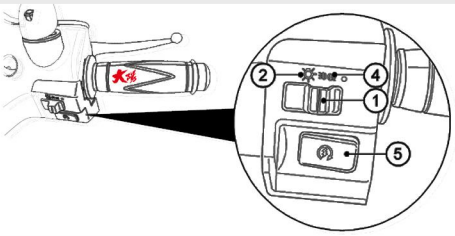
Brake Levers & Throttle



- **Rear brake ⑤:** When stopping the scooter, squeeze the rear brake smoothly and firmly. Always engage the rear brake first.
- **Front brake ⑥:** Squeeze the lever gently at first to avoid locking the front wheel. Most of your stopping power comes from the front wheel, which should always be used to supplement the rear wheel.
- **Throttle grip ⑦:** The rotary throttle grip is on the right handlebar. Accelerate by rotating the throttle towards you. Decelerate by rotating the throttle away from you. The throttle includes a safety spring that snaps the throttle back to end when released.

Danger! Use extreme caution when engaging the front brake to avoid locking the front wheel locking the front wheel can cause a serious accident.

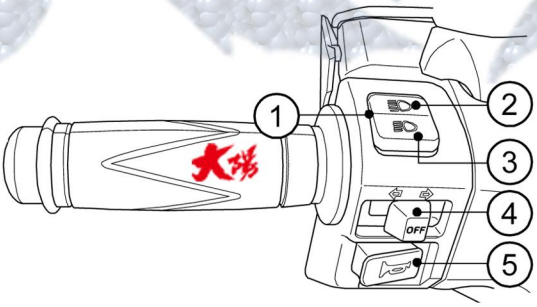
Right brake/switch assembly



- **Headlight switch ①:**Slide the middle switch to the left position ② to turn on the headlight taillight, speedometer lamp, and special parking lamps. The right position ③ lights the taillight and parking lamp. The middle position ④ also lights the panel lamp.
- **Flash switch (5):** Flash front light while slide the middle switch to the middle possition.

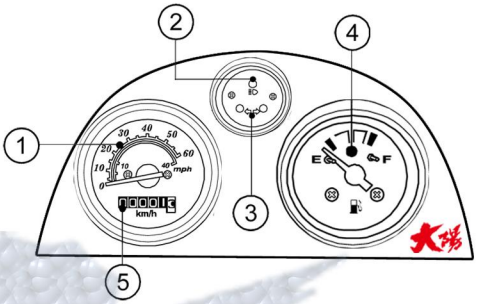
DANGER! Never operate the vehicle with the headlight switch in position 3 or 4. Other drivers may not be able to see you and/or you may not be able to see and avoid hazards, which could cause a serious accident.

Left brake/switch assembly



- **High/low beam light switch ①:** To activate the high beam,move the switch to position ②. For low beam, use position ③. You can flash the high beam (such as during passing) by pushing the light switch down and releasing it.
- **Turn signal switch ④:**Slide the switch plate left for a left signal and right for a right signal. Press the center of the switch to cancel the turn signal.
- **Horn ⑤:** Press the bottom button to sound the horn.

Instrument panel



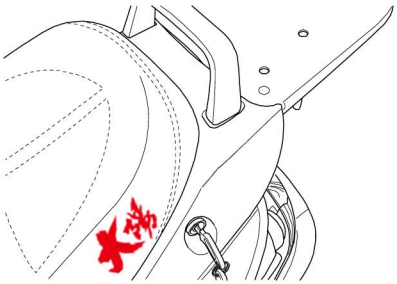
- **Speedometer** ①:Indicates the current driving speed in both km/h and mph.
- **High beam indication lamp** ②: Illuminates when the high beam is selected.
- **Turn signal lamp** ③: Indicates that the turn signal is activated.
- **Battery power indicator** ④: Indicates the battery power level. When the gauge reads "F" (Full) the battery power level is more than 50%. The pointer first enters the red zone when there is about 10% power remaining in the battery.
- **Odometer** ⑤: Indicates the total distance the vehicle has traveled, in km.

Attention

You should put the center stand on then start motor and keep motor running at max speed while you read battery power indicator.

Seat Lock

- **To open:** Insert the key just below the seat on the normal left side of the vehicle. Press the seat down slightly while turning the key clockwise to release the latch. Lift the seat.
- **To close:** Press down the seat until locked, then remove the key. Never leave the key in the lock.



Before Starting the Engine/Motor

1 Tires

a Ensure that both tires have at least 1/8” inch tread depth at center.
b Both tires must be inflated to the pressure indicated on the tire sidewalls.
c Replace the tires if tread height is less than 1/8" at the center of tires.

2 Throttle

a Check for smooth operation. Make sure throttle grip could return to cut off power.
b Check for frayed cable or damaged cable housing. Replace damaged cable to avoid electricity shock.
c Check for mud, debris and ice in the throttle mechanism. Clean out any contamination.

3 Fasteners

a Check that all axle nuts and lug nuts are secure.
b Check for missing fasteners. Replace as necessary.
c Check that all other fasteners are secure. Tighten as necessary.

4 Steering

a Make sure steering turns freely.
b Check for proper "toe-in" of wheels
c Lubricate/adjust as necessary. See the Maintenance section.

5 Frame/chassis

Check for bent/damaged frame/chassis components. Replace as necessary.

6 Battery

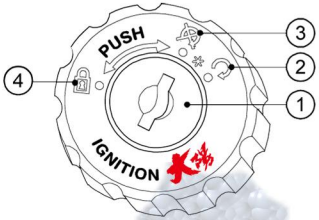
Check that clamp bar and connections are tight and corrosion-free. Clean/tighten as necessary.

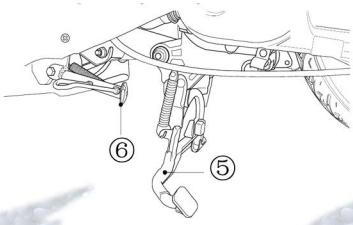
7 Lights

Check for proper operation. Replace bulbs as necessary.

Starting the Motor

To start an electric scooter, balance it on its center stand ⑤ with the side stand fully retracted. Flip the motor stop switch ③ to RUN ②. Battery power indicator ④ will move to “F”. Twisting the throttle will engage the motor.





DANGER! Always retract the side stand prior to starting the vehicle.

Driving Safely

DANGER! Follow all of the danger tips in this operator’s manual at all times while operating the scooter. It is your responsibility to know and obey all applicable local, state, and federal laws.

DANGER! Never overload the vehicle. The carrying capacity is 150kgs.

After starting the motor, squeeze the rear (left) brake lever and the rear hand hold, then gently push the scooter forward off the center stand. Straddle the seat while keeping one foot on the ground for stability. Slowly turn the throttle to begin driving. Place your foot on the floorboard as the scooter begins moving. Never attach any articles to the handlebar. Stow any cargo on the luggage rack or in the under-seat storage box. Do not carry cargo weighing more than 5 kgs on the luggage rack. Always hold the rear hand hold when lifting the scooter.

WARNING! Always wear safety approved helmet, eye protection and shoes when riding your vehicle.

DANGER! Never drive the scooter with the side stand extended.

Shutting off the motor

Always shut off the motor by turning the ignition switch to OFF.

CAUTION: Squeeze brake lever will shut off the motor, however leaving the ignition switch in the RUN position could drain the battery.

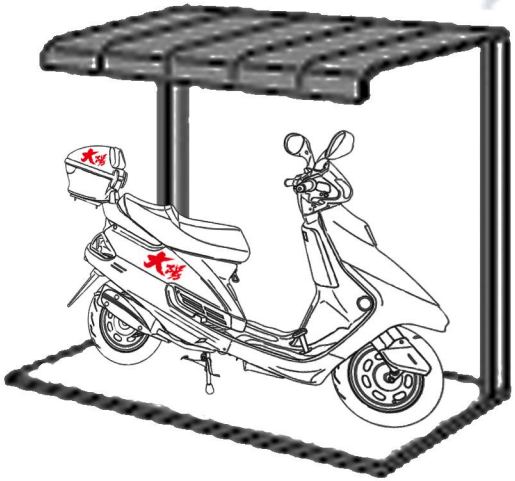
Stopping the vehicle

DANGER! Wet, oily, or sandy roads reduce braking effectiveness. Hard braking on these surfaces could lead to loss of control and a serious accident. Always reduce speed as gradually as possible.

When braking, always engage the rear brake first to retain maximum control of the scooter. Most of your stopping power comes from the front wheel.

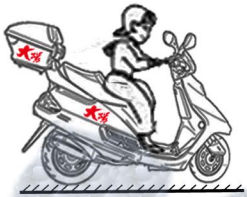
Parking

Always keep the key in the lock position when parking the vehicle to prevent theft. Park on smooth and hard surface, being sure to use the center stand whenever possible.

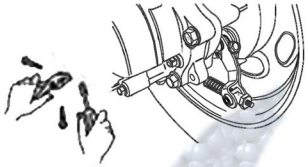


Motor Safety

Keep the motor free of dirt and debris, especially in the throttle linkage area.



Never tamper with, alter, or change the vehicle's motor settings. The motor governor is factory set and protects the motor from damage. Excessive motor speed is potentially dangerous to the operator, bystanders, and the motor itself.

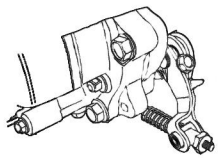


Never start the engine/motor unless you are properly seated with your hands firmly on the controls.

Operating the vehicle in conditions where water, mud, snow, dirt, sand or other debris can get into the throttle wire conduit and/or the throttle mechanism can cause the wire or throttle mechanism to bind, which may lead to throttle sticking, loss of control, and possible death, injury, and/or property damage.

Fasteners

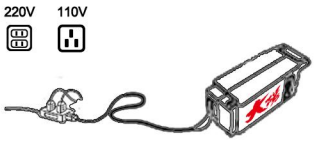
Make sure that all screws, locknuts, and bolts are properly tightened. Never over-tighten hardware that is designed to move. Restricting moving parts can cause a loss of control and possible injury or death.



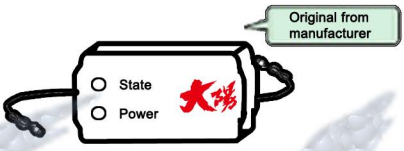
Always replace torque-type locknuts with new locknuts of the same type after removing the old ones.

Battery Charging

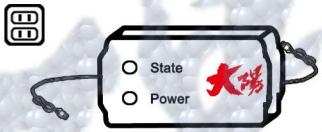
Check the local civil electricity power supply before battery charging. Make sure the battery charger is matched with the power supply. Never charge the battery while the motor is running.



Always use a Dayang original battery charger from manufacturer. Inproper charger might pose a fire or explosion risk.

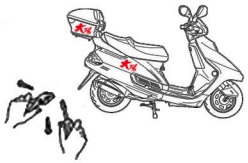


The 3rd generation of Dayang digital chip controlling charger will not overcharge the battery. But please disconnect the charger from electricity power supply in time for power saving.

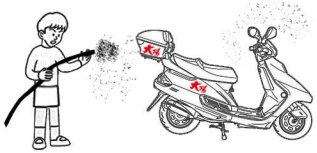


Maintenance

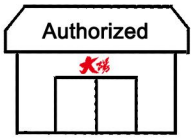
Do not modify the vehicle from the manufacturer's original design and configuration.



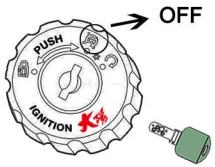
Never wash or operate the vehicle in freezing temperatures. Water can freeze in wire and the throttle mechanism, possibly resulting in throttle sticking, which can cause the motor to continue to run and result in loss of control.



Assembly, maintenance, and/or repair of this vehicle should only be performed by designated dealers or authorized small-engine repair centers for e-scooter/e-bike repairs to ensure quality work and safe vehicle conditions.

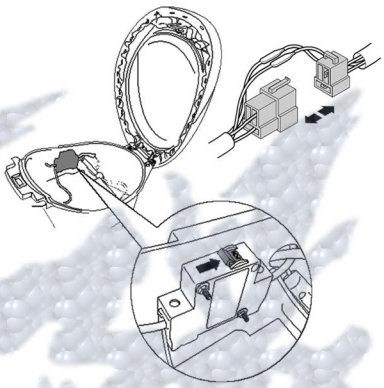


Always shut off the batteries before commencing any work in the motor vicinity or where there is a possibility that the vehicle could move unexpectedly.

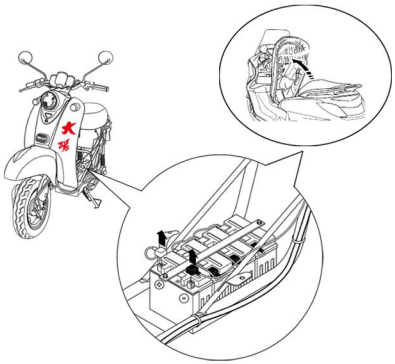


Battery Replacement

48V10Ah and some of 48V20Ah batteries are packed in battery box which is located in floor (foot panel). To access the batteries, remove the fasteners securing the scooter's floor panel. Some of 48V20Ah and 64V 20Ah batteries or above are set under the seat.To access the batteries remove the fasteners securing the panel beneath the seat. The battery power switch is located in the storage compartment under the seat. Always turn this switch OFF prior to performing any work on the motor, rear wheel, rear brake, etc.

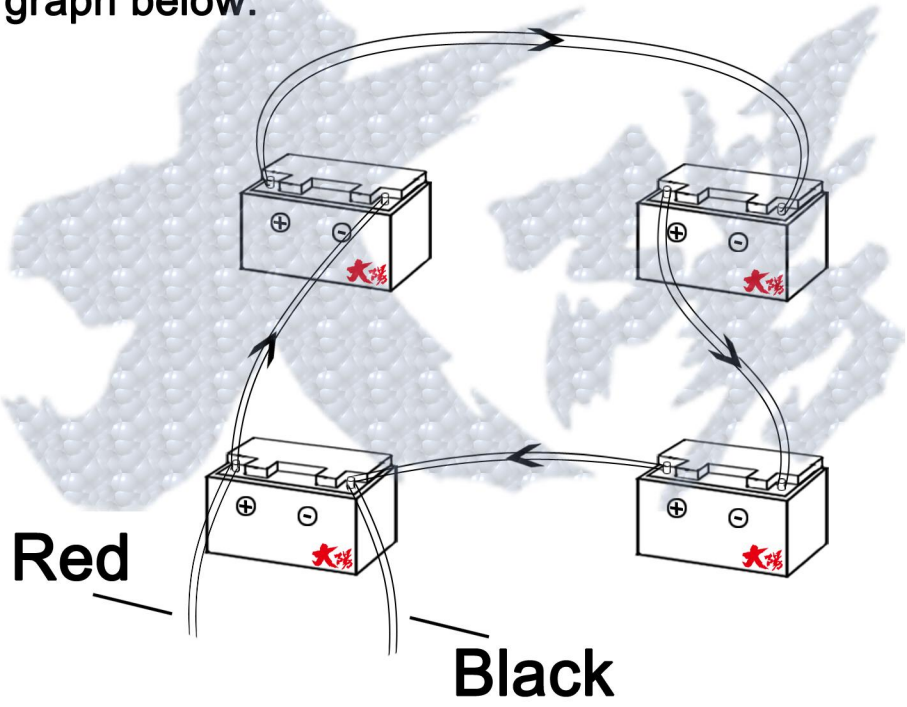


After shutting off the power, disconnect the motor power supply by carefully put off the connector from battery joint. Remove the fasteners securing the battery restraining bracket. Remove the bracket. Disconnect the battery terminals (positive first, then negative).



Battery Connection

The Dayang original batteries are connected in series. Normally there are 4 batteries in the battery box or bracket. The connection should be made as the positive to negative. See the connection graph below.



	DANGER! Don't replace the batteries by yourself. Battery replacement should only be performed by designated dealers or authorized service center.

Electric Scooter Maintenance Tips

If you own an Dayang electric scooter you should know that there are many more things that can go wrong with your electric scooter to hinder its performance. That is why the way you care for your electric scooter is so important.

Item	Maintenance	Rate
Electric capacity	Check the electric capacity whether it is full or not before you drive.	Daily
Reflector Seat	Check and fix the reflectors and seat.	Daily
Appearance	Use the light alkaline detergent or clean water to wash the surface.	Weekly
Tires	Ensure the tires are properly inflated.	Weekly
Brake	Make sure that the wheels will stop immediately when you clench brake.	Weekly
Chain	Check the connect point of the chain which should be properly lubricated by machine oil.	Monthly
Axle	Check and tighten the screws of front and rear wheel axle.	Monthly
Battery	Clean the battery's terminal, lead wire, contactor, and check the actuating force.	Monthly
Front fork	Tighten the screws of front fork and handlebar.	Monthly
Wheel bounce	Both the radical and axial direction wheel bounce should below 2mm.	Yearly

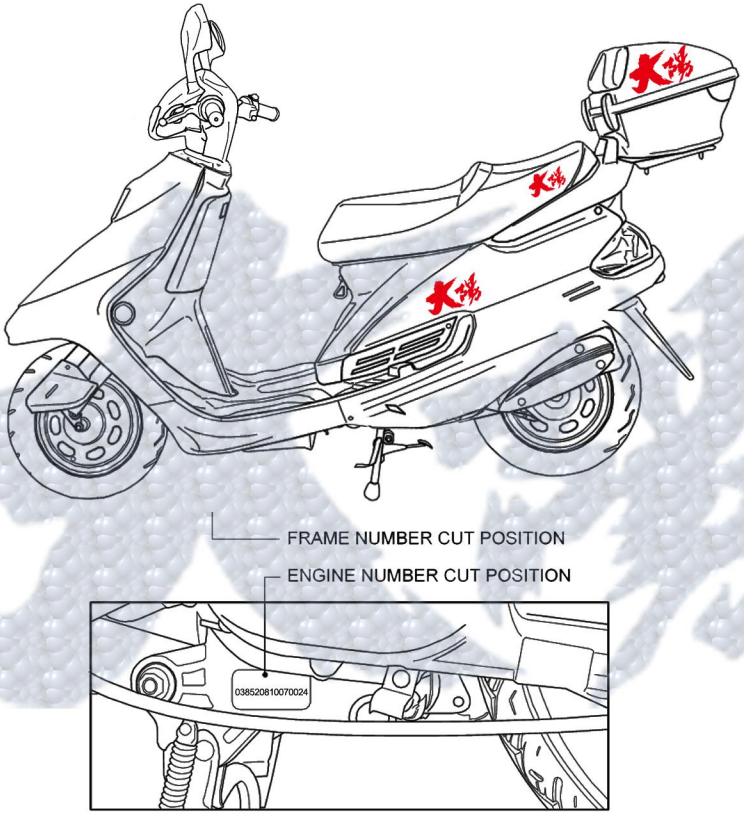
Troubleshooting

This table is only a guide to aid you in getting your vehicle operating, should you have any problems. If you are unable to get your vehicle operating, please contact your dealer or manufacturer authorized repairing center,

Symptom	Possible Cause	Solution
Vehicle does not move	1.Keyswitch not "ON" 2.Main circuit breaker tripped 3.Charger connected to outlet 4.Battery power low 5.Battery harness loose or unpiugged 6.Scooter shuts down to conserve battery 7.Wire breaking] 8.Side stand is "ON"	1.Turn keyswitch to "ON" 2.Reset circuit breaker in trunk area 3.Try to release levers brake under the seat 4.Disconnect charger 5.Recharge batteries 6.Plug harness into connector 7.Cycle wires from battery to throttle 8.Retract side stand
Scooter feels wobbly when driven	1.Tire pressure low 2.Wheel is fastened enough 3.Bearings in steering is worn out	1.Inflate tire 2.Fasten wheel. Ensure 3.Replace bearings
Range less than expected	1.Charging too infreguently 2.Defective or worn out battery 3.Cold weather reduces battery life 4.Defective charger or wrong charger	1.Charge unit more often 2.Load test batteries.If necessary replace 3.Allow batteries to reach room temperature and then fully recharge 4.Test it at your dealer or manufacturee authorized distributer
Ammeter not registering	1.Batteries are fully charged 2.Ammeter broken or wire disconnected 3.Batteries have had cells 4.Faulty charger	1.Turn keyswitch to "ON." Battery indicator should read "F" (Full) 2.Replace Ammeter or connect wire 3.Load test batteries. If necessary replace 4.Contact Electric Mobility or your Authorized Service Center
Brake squeals	1.Dirt in brake pad	1.Blow dirt out whit air pressure hose
Brake release lever sticks	1.Rust and corrosion	1.Spray ball detent area whit lubrication oil. Be careful not to get oil onto the brake pad
Stiffness	1.Possible grime build-up 2.Bearings in head tube worn	1.Clean steering system 2.Replace bearings

Model No.:_____

Serial No. :_____



The Vehicle Identification Number (VIN) is required for all warranty work, theft recovery, and consumer safety. The VIN is located under the clip-on above the floorboard. The complete VIN also appears on a plate affixed to the main engine tube under the front floorboard.