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FEATURES



- 1. One button repair Emergency
- 2. Parking button Safety
- 3. Reverse button
- 4. Centre Locking Remote
- 5. USB Charging Port
- 6. Mobile and bottle holder
- 7. Removable battery / Onboard charging

- 8. 3-step adjustable damper coil spring suspension
- 9. BLDC hub motor
- 10. Alloy wheels
- 11. Telescopic suspension
- 12. Twin LED headlamp
- 13. Digital meter
- 14. Double Disc Brake

1. VEHICLE PARTS



2. CONTROL SWITCHES

LOCK CONTROL

ON	Ignition ON
OFF	Ignition OFF
LOCK	Steering LOCK, Ignition OFF



TO LOCK & UNLOCK THE STEERING

- o To lock the steering turn the handlebar to the left. Push and turn the key to the "LOCK" position and remove the key.
- o To unlock the steering, insert the key in the steering cum ignition lock & turn it clockwise to the "OFF" position. To turn the electric circuits "ON" turn the key further clockwise.

TO OPEN THE UNDER-SEAT STORAGE BOX

• Insert the key in the ignition lock at the OFF position and turn it in an anti-clockwise direction to unlock the under-seat storage box lock. **KEY: A common key is used for the steering lock, power ON/OFF and Seat Lock.**

LEFT HANDLE SWITCH CONTROL

 Dipper Switch: when the headlight is ON, a high or the low beam can be selected with the dipper switch.

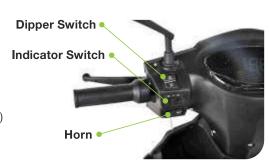


High Beam



Low Beam

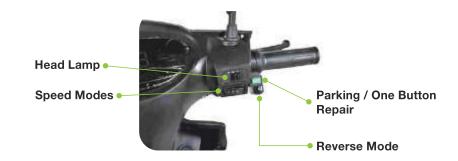
- Turn Signal Switch: when the turn signal knob is turned to Left () or Right () respective indicator will start blinking, to stop blinking push the knob and release it.
- Horn Button: () Press the button for sounding the horn.



RIGHT HANDLE SWITCH CONTROL

Head Light Switch: It has 3 positions.

•	All lamps "OFF"
- D0 -	Tail lamp, Pilot lamp "ON"
-\\\\\-	Headlamp, Pilot lamp, Tail lamp "ON"



- Speed mode switch
 - 1) Eco-mode (25kmph max speed)
- 2) Normal mode (36kmph max speed)
- 3) High mode (45kmph max speed)

Note: Max speed may vary according to the percentage of charge in the battery

- Parking Switch: When the parking switch is pushed IN, the motor stops working and the symbol is displayed on the instrumental cluster. Release the parking switch by pressing it OUT, the motor starts working.
- One button repair: ONE BUTTON REPAIR is a highly advanced technology that enables the vehicle to continue to operate and run even if there is any minor fault in either Motor (except failure due to hall sensor, Controller or Accelerator).

Note:

- 1) ONE BUTTON REPAIR button should be used for emergency purposes only.
- 2) ONE BUTTON REPAIR button should be used only when there is a failure in the motor or throttle but not showing any indication in the cluster.
- Reverse Gear switch: To reverse your vehicle shift the mode switch from drive mode (D) to reverse mode (R) then slowly accelerate the
 vehicle then start moving backwards.

3. DIGITAL DISPLAY



4. SECURITY FEATURES

- Side stand sensor: A symbol of SIDE STAND indication will appear in the cluster showing that you have to take the vehicle from a stand
 or else the vehicle won't start.
- Steering Lock: To lock the steering, turn the handlebar to the left, push & release the key turn the key to
 the "LOCK" position and remove the key. To release the lock, push the key into the power switch & turn
 clockwise.
- Seat Lock: To open the seat lock, insert the key into the key slot. Then turn anti-clockwise (lock gets released) and lift the seat. To lock the seat, press the seat firmly.
- Parking Switch: When the parking switch is pushed IN, the motor stops working and the symbol (1) is displayed on the instrumental cluster and the motor does not move. This keeps the vehicle immobile and avoids any unintentional acceleration unless the Parking button is pressed out.

Anti-Theft Alarm (Remote):

1) Using Keyless Start

- Double-tap on the power button in the button it will start the vehicle.
- Tap on the unlock button once it will turn off the vehicle.

2) Setting up Anti-Theft ALARM

- Tap on the lock button on the remote it will lock the key. If anybody tries to move the handle or motor vehicle will start alarming.
- Tap on the unlock button one time it will unlock your vehicle.



5. REAR STORAGE BOX

- There is a provision for storage on the rear side under the seat.
- O There is another provision for storage at the leg space.

6. SERIAL NUMBERS

- To facilitate maintenance and customer service, our vehicles have Vehicle Identification Number(VIN) and a motor serial number.
- The vehicle VIN is located at the junction of the chassis base.
- O The motor serial number can be found on the motor body itself.

7. INSTALLATION & REMOVAL OF BATTERY

Removal of the battery

- Portable battery is available inside the vehicle.
- The battery can be removed and installed easily from the vehicle.
- Unlock the rear storage box and lift the seat.
- *Turn OFF the MCB.
- · Open the lid of the storage box.
- Lift the battery and unplug it gently (unplug by pulling out the connector and not the wire. In case the wire is pulled instead of the connector, the possibility of wire coming out resulting in the short circuit)
- Place the battery out for charging or swapping (before placing the battery check the outer surfaces for water / fire / dust / cotton material / inflammable and unsafe surroundings).

Installation of the battery

- Unlock the rear storage box and lift the seat
- · Check whether the MCB is Turned off.
- Place the battery in its respective position and connect the plug.
- Turn ON the MCB.
- · Lock the seat and start the vehicle.





MAINTENANCE & SERVICE



1. BATTERY USAGE & MAINTENANCE

DO'S

charge terminals of the battery from rain or waterlogging.

shock or severe vibration or impact.

To avoid damage to the battery, never subject it to intense physical

The battery is crucial in maintaining the performance of the vehicle therefore proper maintenance of the battery is very important.

DON'TS

Do not use the battery in dust and damp surroundings.

should be plugged out once it is fully charged.

Battery should not be left for overnight charging.

Battery should not be charged beyond its stipulated time and it

1	The battery should be charged for 24 hours before the first time use after buying or long storage and recharged for 24 hours every 2	×	Discharging the battery above 80% of the depth of discharge completely reduces the life of the battery.
	months in normal use.	×	If the riding period is short, the battery need not be charged every day.
1	Always charge the battery fully.	×	Do not stop charging in the middle and start using the vehicle.
1	If the E-vehicle is not in use for prolonged periods over more than one	×	Please do not use chargers other than the charger provided with the
	month, please charge and discharge the battery at least once a month.		vehicles. Other chargers may have different charging currents which may result in battery failure.
1	When the battery is not in use for an extended period, remove the	×	Strictly do not charge the batteries close to the fire and high
	battery from the load for storage and keep the battery in half-charged		temperatures. The life of the battery will reduce if it is put under the
	condition.		hot sun or by keeping it in a place where the temperature is more than
✓	Earthing of charger is compulsory, if not connected to earth it may		40°C.
	result in a hazardous situation.	×	Never put the battery near to the fire, water, cotton waste, or
✓	Always carry a fire extinguisher in case you observe any abnormality		inflammable substance.
	it will help in such cases.	×	Never short-circuit the discharge or charge terminals of the battery.
1	If you have any questions about the battery and its usage and enquiry	×	Do not try to open the battery yourself.
	for new battery, please do not hesitate to contact us on the given	×	Do not charge the battery immediately after using the vehicle. Let the
	coordinates in our website and the concerned Dealers / Distributers /		battery cool for some time.
	Batter providers.	×	Do not use the vehicle immediately after removing from charging.
1	Always charge the battery in well ventilated areas.		Give a rest period of 15 minutes after the charger is removed from the
1	Protect the battery from water or moisture. Protect the discharge and		mains.

If you fail to comply with the instructions and warnings described above, you would be responsible for the performance of the Battery.

2. CHARGER USAGE AND MAINTENANCE

DO'S	DON'TS
 Firstly, connect the output cable of the charger to the battery pack's charging connector and then connect the input cable of the charger to the AC mains. When the battery is fully charged, (ie., Green LED indication), first unplug the input cable of the charger from the AC mains and then remove the output cable from the battery pack. Check and ensure that the voltage supply to the battery charger is AC 220V, if the supply voltage is irregular or expected to vary drastically, please use a voltage stabilizer. Please use a specific charger as provided and indicated by the dealer/distributor. Use the charger under proper ventilation. Although the charger has an auto cut-off system, it is advisable to plug out the charger once the battery is charged. Earthing of charger is compulsory, if not connected to earth it may result in a hazardous situation. 	fire. Never plug or unplug the charger using wet hands and don't touch the charger under thunder or lighting condition. Do not use the charger in dust and damp surroundings. Avoid using the charger under direct sunlight. Do not turn on the Charger until it is connected to the battery. Don't use the charger for overnight charging the battery. Don't use the charger beyond its stipulated time.

3. PRECAUTIONS WHILE CHARGING THE BATTERY

4. THINGS TO NOTE

- If there is a need to service or change the accessories of the vehicle, please contact the OEM and their Dealer immediately. We will not be responsible for faulty accessories or parts used that are not specified by us.
- o Riders should avoid sudden acceleration and sudden braking while riding; this will affect the performance of the vehicle in long term.
- Whenever a vehicle is not used, the MCB must be turned off and the connector must be disconnected.
- O Avoid exposing the vehicle to drastic weather conditions.
- o Though the vehicle is designed for usage in rainy and wet conditions, do not drive when water levels are above the center of the wheels during rainy weather and potholes submerged with water; water leaking into the motor will cause damage to the vehicle.
- On to do any modification to electrical components and wiring circuits on your own.
- o Do not wash the vehicle with high-pressure water, this may lead to the entry of water into electric components.
- o If the vehicle is driven in heavily flooded areas, water may enter the motor assembly and the vehicle may stop suddenly.

All these can cause operational faults, electric failure, and other damages, thereby shortening the lifespan of the vehicle and endangering the safety of the user. We will not be responsible for errors or faults caused due to the above reasons. As a user of this vehicle, you are advised to take necessary precautions in view of safety for the rider and vehicle

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5. WHEEL USAGE AND MAINTENANCE

Front Wheel Dismantling & Assembling for Tire Changing

DISMANTLING	ASSEMBLY
 Loosen and remove the nut on the front brake caliper. Loosen and remove the axle nut on the side. Gently tap the axle and remove it from the fork. The wheel assembly, with the disc plate, will now come out from the fork. 	 Keep the wheel assembly with the disc plate between the fork. Tighten the brake caliper to the holes provided in the fork. Insert the front axle on one side through the wheel assembly with appropriate bushes. Tighten the axle nut. Make sure that the disc plate should be in The center of disc pads.

Rear Wheel - Dismantling & Assembling for Tire Changing.

DISMANTLING	ASSEMBLY
 Remove the rear brake caliber by loosening & removing the bolts. Disconnect motor wires from the wiring harness (a). Disconnect the 5-way connector of the motor from the wiring harness. (b). Disconnect the three-motor wire (Blue, Green, and Yellow) by loosening the nut from the controller. Loosen the axle nuts on both sides. Slide the wheel back through the slot. Wheel is of the vehicle. 	 Keep the wheel assembly on the stay slot, keeping the motor wires to the left of the vehicle. Tighten the axle nuts on both sides. Fix the brake caliper with the provided bolt and nut. Connect the motor wires by connecting the five ways connector to the sockets and the three motor wires by the nut to the corresponding sockets.

6. MAINTENANCE RECORDS

- You are responsible for properly operating, maintaining, and caring for your vehicle in accordance with the instructions contained in the owner's manual. If your vehicle is subject to continuous driving conditions, you should follow the maintenance requirements specified accordingly in the owner's manual.
- O You are responsible to track and maintain a record of the maintenance documents since it might be proof at any instance for you to verify that the required maintenance has been performed.

TECHNICAL
PARAMETERS
& SPECIFICATIONS



1. VEHICLE PARAMETERS AND SPECIFICATIONS

TECHNICAL SPECIFICATIONS & FEATURES**	E-SPRINTO
CONTROLLER TYPE	SINEWAVE
BATTERY CAPACITY	60 V, 23 AH & 29AH
TRUE RANGE*	70-100 Kms
BATTERY	LITHIUM-ION
BATTERY REMOVABLE	YES
REGENERATIVE BRAKING	YES
BRAKING SYSTEM	FRONT AND REAR - DISC
ANTI-THEFT	YES
SIDE STAND SENSOR	YES
ONE BUTTON REPAIR	YES
REVERSE SWITCH	YES
INSTRUMENTAL CLUSTER	DIGITAL
HEADLIGHT	LED
TAIL LAMP & INDICATOR	BULB
WATER-RESISTANT	YES
WHEEL SIZE	3*10 INCHES
TYRE	TUBELESS
LOADING	150 KG (2 ADULTS)
CHARGER AUTO-CUT	YES
CHARGING TIME	3-4 HOURS
RIDING MODES – NORMAL, ECO, POWER	YES
GROUND CLEARANCE	165 mm
REMOTE CENTRAL LOCK	YES
PARKING SWITCH	YES
FRONT SUSPENSION	TELESCOPIC SUSPENSION

1. VEHICLE PARAMETERS AND SPECIFICATIONS

TECHNICAL SPECIFICATIONS & FEATURES**	E-SPRINTO
REAR SUSPENSION	COIL SPRING THREE-STEP ADJUSTABLE
KEYLESS ENTRY	YES
ANTI-THEFT SYSTEM	YES
BATTERY LEVEL INDICATOR	YES
UNDER SEAT STORAGE	UP TO HALF FACE HELMET
USB PORT - MOBILE CHARGER	YES

Note: All above information is subject to change without any notice. *Ideal driving conditions

2. BATTERY SPECIFICATIONS & SAFETY PRECAUTIONS

BATTERY PACK	60V/23Ah	60V/29Ah	
Capacity (AH)	23	29	
Nominal voltage (V)	59.2	59.2	
POWER (WH)	1320	1658	
Standard Charging Current (A)	6 A + 0.5A	10 A + 0.5A	
Maximum Working Temperature	+3C to +50C	+3C to +50C	
Storage Temperature	-10C to +48C	-10C to +48C	
Cycle life @ 80 DOD%	1000 cycles	1000 cycles	
Cabinet design	lp65	lp65	
Power connector	SB-50 Connector & PG Gland	SB-50 Connector & PG Gland	
Casing	Metal	Metal	

NOTE: Battery specifications may change periodically or on need bases. So, you are advised to check with OEM/OEM Partner/Authorized Dealer/Dealer at the time of purchase.

PRECAUTIONS

Users should adhere to the below safety precautions for the proper functioning of the battery and to avoid any personal injury. Failure to comply with the safety instructions can damage the inbuilt safety features and may lead the battery pack to overheat, emit smoke, burst, and / or ignite causing injury to the rider and damage to the vehicle.

- 1. Do not disassemble or modify the battery pack.
- 2. Do not connect the positive (+) and negative (-) terminals with a metal object such as a wire.
- 3. Do not discard the battery pack into fire or heat it.
- 4. Do not use or leave the battery pack near a heat source such as a fire or a heater (80°C or higher).
- 5. Do not immerse the battery pack in water or seawater, and do not allow it to get wet.
- 6. Do not recharge the battery pack near fire or in extremely hot weather.
- 7. Do not store or charge the battery pack near water/fire/cotton waste/inflammable substances.
- 8. To recharge the battery pack, use the battery charger specifically designed for the purpose and observes the recharging conditions specified by the concerned OEM/OEM partner/Authorized dealer.
- 9. Do not pierce the battery pack with a nail or other sharp objects, strike it with a hammer, or step on it.
- 10. Do not strike or throw the battery pack.
- 11. Do not use a damaged or deformed battery pack.
- 12. Do not directly solder the battery pack.
- 13. Do not reverse the positive (+) and negative (-) terminals. Do not connect the battery pack to an electrical outlet, vehicle cigarette lighter, etc.
- 14. Do not use the battery pack for a purpose other than those specified.
- 15. While connecting the battery for charging do not apply an additional force which may lead to damage of the terminals of the battery and charger.
- 16. Don't connect the battery charger to the same junction box where other appliances (AC, Refrigerator, Tv, etc...,) are connected to a same junction box.

IMPORTANT

Users should follow below mentioned instructions for the safe usage of batteries. Failure to comply with the safety instructions may lead the battery pack to overheat, emit smoke, burst, and/or ignite.

- 1. Do not use the battery pack in combination with primary battery packs (such as dry-cell battery packs) or battery packs of different capacities or brands.
- 2. If the recharging operation fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
- 3. If the battery pack leaks or gives off a bad odour, remove it from any exposed flame.
- 4. If the battery pack gives off an odour, generates heat, becomes discoloured or deformed, or in any way appears abnormal during use, recharging, or storage, immediately remove it from the equipment or battery pack charger and stop using it.
- 5. Do not use it in a location where static electricity (greater than the manufacturer's guarantee) may be present.
- 6. Do not recharge the battery beyond the recommended operating temperature range.
- 7. Store the battery pack in a location where children cannot reach it.
- 8. Before use, carefully study the Operation Manual and Precautions. For further information, contact OEM/OEM partner/Dealer Keep the manual for future reference.
- 9. In Case of smoke or fire, DO NOT POUR WATER ON DAMAGED BATTERY. Use a powder-coated extinguisher and sand to isolate the battery.
- 10. Always carry a fire extinguisher in case you observe any abnormality it will help in such cases.

3. CHARGER PARAMETERS & SPECIFICATIONS

IMPORTANT SAFETY INFORMATION

Misusing or Incorrect connection to the Battery Charger may Damage the equipment or create Hazardous conditions for the user. Read the following Safety instructions and pay special attention to all caution & warning.



- Use a charger only to charge LITHIUM-ION Batteries. Other uses may cause personal injury and damage.
- Keep sparks, flames & smoking materials away from batteries.
- While charging the battery, never place the charger on top of the battery.
- Disconnect from the mains supply before connecting or disconnecting to the battery.
- o Study all battery manufacturers' specific precautions such as recommended rates of charge and voltage.
- Ensure all ventilation ports are not obstructed, to avoid overheating.
- Never plug or unplug the charger using wet hands and don't touch the charger under thunder or lighting condition.



DANGERS
Electrical shock Hazard!

- o Earthing of charger is compulsory, if not connected to Earth it may result in a hazardous situation.
- Onnect charger input power cord to an outlet that has been properly installed and grounded.
- Do not touch the uninsulated portion of Input connector/output wires and uninsulated battery terminals.
- O Do not open or disassemble the charger.
- Do not operate the charger, if the AC supply cord is damaged or the charger is in broken condition.

FEATURES

- 1. Protection: short circuit/overload/over voltage/over temperature/reverse polarity
- 2. IP 65 rating water-resistant
- 3. Led indication for Mains ON
- 4. High Reliability

CHARGER SPECIFICATION			
	60/10A	60V/6A	
INPUT VOLTAGE	170-300 VAC	170-300 VAC	
INPUT CURRENT	5A MAX	5A MAX	
FREQUENCY	50Hz	50Hz	
OUTPUT VOLTAGE	67.2 VDC	67.2 VDC	
OUTPUT CURRENT	10A DC	6 A DC	
CONNECTOR TYPE	ELCOM (C-13)	ELCOM (C-13)	

NOTE: Charger specifications may change periodically or on need bases. So, you are advised to check with OEM / OEM / Partner / Authorized Dealer / Dealer at the time of purchase.

MOUNTING & INSTALLATION

o Choose a location for Battery Charger to charge that is Dry, Clean, Safe, and Dustproof and not directly on the battery.

INPUT CONNECTION

- Connect input mains supply cord to the 5Amp (most preferable is 10Amps) AC plug wall socket with proper grounding.
- o Make sure that Earth (Ground) is connected.

OUTPUT CONNECTION

- Do not touch uninsulated output wires.
- Connect the charger output cable with a connector (DC OUTPUT) to the battery connector.
- Make sure that the battery positive terminal is connected to the positive terminal of the
- o charger the and Battery negative terminal is connected to the negative terminal of the charger.

GENERAL OPERATION INFORMATION

- Connect input supply cable to mains supply 230V ac/50Hz and output cable to the battery.
- Make sure that input of charger is plugged into mains socket having Earth connection.
- Once switch ON the input supply, the charger gets ON, by showing RED LED indication ON initially
- O After a few seconds that Red Light turns to Green indicating that the battery is getting charged.

WARRANTY



WARRANTY

OEM has taken best care to use only quality components and workmanship in the manufacturing of its products. In the unlikely event of some defect, We will be glad to offer a warranty on our Li-ion battery Products under the following conditions.

1. COMPONENT WISE WARRANTY

Product	Component Warranty					
	Motor	Controller	Convertor	Battery	Charger	
18 Months	24 Months	12 Months	12 Months	36 Months or 60,000 Km	12 Months	

2. WARRANTY TERMS AND CONDITIONS

- In all cases, the warranty applies from the date of sale to the original purchaser.
- During warranty if any key component is replaced, the warranty is accountable as per the date of the Invoice or warranty card and not from the replaced date.
- o The right to determine whether the part needs repair, service, rectification or free replacement solely depends on the decision from OEM.
- Warranty claims on proprietary items such as tires should be submitted by the user directly to the respective manufacturer, as per their warranty terms and the company shall not be liable in any manner in respect to the same.
- O The vehicle's batteries have to be serviced at the dealer service center during the suggested intervals from the date of purchase, or else the warranty would be void.

2. WARRANTY TERMS AND CONDITIONS

- o The warranty for the key components will automatically terminate at the end of the 12th month from the invoice date
- Wear and tear parts, plastic parts, wires, bulbs, tires, and tubes are not covered under the warranty.
- Repairs and adjustments caused by improper maintenance, lack of required maintenance, or any misuse of electric components and battery other than the way it is specified in our Owner's manual are not covered under warranty.
- Repairs and adjustments caused as a result of misuse like racing, overloading, overcharging, or similar improper usage, negligence, modification, alteration, tampering, disconnection, improper adjustments or repairs by an unauthorized person, installation of additional add-on parts/materials/electronics gadgets like a mobile phone charger, GPS systems, decorative lamps, horns with the high power rating, etc., which are not the basic parts of the vehicle/not supplied by OEM won't be covered under warranty.
- Damages due to the negligence of customers or damages caused by accidents and natural calamities like floods, earthquakes, fires, etc., are not covered
 under warranty.
- o The warranty is void if the original serial number on the frame or motor is removed, distorted, or altered.
- o Cosmetic or surface corrosion from stone chips or scratches in the painting parts of the vehicle is not covered under warranty.
- o Any kind of tampering found on the wiring harness may lead to laps of warranty of that particular part of the vehicle.
- Under the warranty period if the batteries are being replaced, then the defective batteries purchased/installed without the knowledge of OEM/OEM partner/Authorized dealer will not be covered under warranty.
- During the warranty period if any key component fails due to a manufacturing defect, we shall either repair or replace based on specific conditions.
- Further the above-mentioned warranty shall in no case extend to payment of monetary considerations or replacements or return of the vehicles as a whole.
- The repairs and replacements of the parts that are covered under warranty should be claimed from the respective dealer only for the vehicles purchased from our authorized dealer.
- Ouring the warranty period, if the customer requires any general service or battery service, the vehicle has to be serviced at the authorized service center only.

 All the expenses relating to sending or receiving the vehicle to or from the company or its authorized dealer under this warranty have to be borne by the user.
- O Cleaning and polishing, and replacement of wear and tear parts like worn-out brake pads and brake lining are some of the normal maintenance services that all vehicles require are not covered under warranty and it can be done at the vehicle owner's expense.
- O Water/dust logging inside any component of the vehicle will not be covered under the warranty.
- O Rust formation in any component will void warranty conditions.
- Normal noise, vibration, wear and tear, or deterioration such as discoloration, fading, deformation, or blur, and seat cover discoloration is not covered under warranty.
- In case of abuse by the user which may lead to conditions such as MECHANICAL FAILURE, SENSOR BURN in motor, and damage to WIRING HARNESS
 will result in warranty void.
- It is not recommended to have uneven throttling while driving as it may affect the throttle, controller, and motor and it may lead to warranty void condition.

3. WARRANTY VOID CONDITIONS FOR MOTOR

- If motor screws are not in contact or missing.
- Water logging inside the motor.
- Axle when damaged due to misuse or collision.
- o Coil burnt due to usage in extreme climbing ramps (upward slope) for long duration or due to overloading vehicle beyond rated capacity.
- The wheel rim is found to be damaged due to mishandling or collision and overloading.
- The magnets are found to be broken due to mishandling & any type of mechanical damage.
- O The side cover is damaged or broken.
- Any kind of unauthorized welding is done on the motor or related parts.
- Wire damage, sleeve cut, crimping pins cut, and when wires are found twisted.
- Rusting of magnets and stator.
- Axle threads damage.
- Connectors burnt.

4. WARRANTY VOID CONDITIONS FOR CONTROLLER

- Screws on the controller are open and/or missing.
- Track burnt due to overloading.
- MOSFET failure due to overloading.
- Water logging inside the controller.

5. WARRANTY VOID CONDITIONS FOR CHARGER

- O Screws on the charger are open and/or missing.
- Input and output cable/connector damage.
- Failure due to water or liquid noticed inside the charger.
- Failure due to earthing will void warranty.
- Unauthorized service, self-assemblies and dismantle.
- Water/dust logging inside the battery.
- Enclosure broke and other vibration-oriented failures.
- o If charger is found to be used for overnight charging the battery it will void warranty.

6. WARRANTY VOID CONDITIONS FOR BATTERY

- Batteries are warranted against manufacturing defects only and not against normal deterioration in their performance.
- Transferred to a third party or any other equipment/system/vehicle.
- Used in non-vehicular applications.
- o Improper charging.
- o Failure due to earthing will void warranty.
- Used in high-temperature areas.
- Water/dust logging inside the battery.
- Used in more than C/2 current rating (continuous, overloaded).
- If battery is damaged due to overnight charging it void warranty conditions.
- Leaving battery under fully discharged condition for a longer period.

- Damaged due to fitment of additional accessories other than the original fitment.
- Battery cover is forcefully attempted to open.
- If any stickers or seals are removed from the battery will void the warranty.
- Damage to the battery caused by faulty electrical systems, improper handling, servicing by unauthorized dealers/technicians, complete abuse, destruction by fire, collision, or theft.
- Damage to terminals of the battery.
- Breakage of the container and its cover.
- O Short circuit due to misuse or self-testing.
- o Failure due to water or liquid noticed inside.
- Other misuse against the user manual.

7. WARRANTY PROCEDURE

You are responsible for delivering your vehicle to any authorized dealer recommended by OEM to obtain warranty service. Your authorized dealer will make the necessary repairs using our genuine parts.

8. AFTER - SALES SERVICE

To protect the legal rights, please retain a copy of this manual. Kindly carry out spot checks and adjustments if any are required for your vehicles during purchase. You hold all rights to request the dealer or their sales personnel to brief the vehicle operation instructions, maintenance requirements, and proof of purchase invoice, service guarantees, and battery warranty cards duly sealed and signed by the Dealer where the vehicle is purchased. It is mandatory to provide proof of purchase and a warranty card to the dealer to get your vehicle serviced.

TROUBLESHOOTING



If you are unable to adjust speed or experiencing slow speed

- It might be because of insufficient battery power if so, charge your battery fully.
- It might be because your throttle is loose-if so, tighten the throttle and check.
- Faulty throttle- if so, change or consult our Dealer.
- If the problem persists, please call us.

If your vehicle power switch ON, but the motor is not moving

- There might not be a charge in the battery-if so, charge the battery.
- There might be a loose connection at the throttle end so take professional help for solving that.
- The battery connection might be loose-if so, service and reconnect.
- O Check whether the vehicle is in "PARKING" mode.
- Check if the backlight is ON, and ensure both brake lever returns to the original position to prevent the motor cut-off switch from getting actuated.
- o It might be because the wheel hub is loose or faulty if so, take the vehicle to the authorized dealer for professional help.
- o If the above conditions are OK, and still the motor is not working, the problem might be in the controller-if so, take the vehicle to the authorized dealer for professional help.

If your vehicle gives lower mileage after one full battery charge

- It might be because of insufficient tire pressure-if so, make sure that the air pressure in the tires is sufficient.
- It may be because of road conditions, grade-ability, acceleration, and driving style.
- It might be because the battery is not fully charged or the charger is faulty-if so, fully charge the battery or check for disconnection of the power supply.
- o It might be because of a worn-out or faulty battery if so, change the battery.
- Overcharging may lead to bulging of battery and low mileage conditions.

Lighting component not working

- Check the voltage supply at socket 12 v supply is coming or not, if the supply is not coming,
- Check the switch's connections-related components and observe whether connections are ok or not.
- Check lighting component wires for any physical damages and check the continuity in the wires with the help of a multi-meter, if any wire is damaged / burnt replace that wire, and insulate it properly.
- Check O/P & I/P of DC-DC CONVERTER supply, if o/p supply is not receiving change the device.
- Check lighting component fuse is damaged / burnt.

Vehicle is not moving with load

- Check battery voltage with the help of a multi-meter, if the battery is not charged, keep it for charging.
- O Check if the backlight is ON, and ensure both brake lever returns to the original position to prevent the motor cut-off switch from getting actuated.
- Check the motor sensor wire connections with the controller, if the wires are not connected properly or any physical damage to the wire, replace the wire and connect with the controller according to the colour-coding.
- Replace the controller and observe motor is moving or not with the load.
- Replace the motor with the same controller and observe motor is moving or not with the load, if the motor is moving with the load it means that FAULT IN MOTOR SENSORS, in this condition change the motor sensor in a proper manner.
- O Check both tire pressure in load condition. (Pressure 36Psi)

Vehicle is totally off condition

- Check MCB connection whether wires are connected to MCB or not.
- Check MCB that should not be burnt, if MCB is burnt/damaged replace that MCB and connect it to the vehicle.
- Check battery voltage with a multi-meter whether the battery is charged or not if the battery has deep down discharge, so keep it charging with boost charging mode.
- Oheck the ignition cable wire & its socket for any physical damage/burnt if so replace the wire and socket for the same.
- O Check the ignition switch o/p if the o/p is not receiving so change the ignition switch set.
- O Check the controller i/p power cables if the cables are damaged/burnt so change that cables for the same.
- o If MCB is found burnt please reach the dealer.

Speedometer not working

- Check the connection of the speedometer.
- O Check whether, the speed signal wire is properly connected with a controller or not if any wire or clip is damaged/burnt so change that wire & clips
- O Check whether the power cable of a speedometer is properly connected or not.
- If more complicated problem so change the speedometer

Switches not working

- O Check the connection of all switches if any damage/burn so change the connectors in a proper manner and according to the wire colour code.
- o If any switch damage/burns so replace that switch with the same.

Disc brake not working

- First we should have to confirm that brake fluid is available or not in the storage tank if fluid is not available fill the brake fluid in the storage tank and only use DOT-4 brake fluid & ensure that the storage tank should be clean.
- O Check the leakage in the brake hose, if there is any leakage, change the brake hose.
- Check the disc pads and ensure that material is available or not at disc pads if pads are scuffed so change that pads and set new disc pads in a
 proper manner.
- Ensure that the disc should not be physically damaged.
- O Check whether the brake lever pump is working or not, if it is not working change that pump assembly.
- After all of these things release the air from the braking system with the help of pumping.

Speed modes not working

- Ensure that the mode switch should not have any physical damage.
- Check whether the mode connectors are properly connected or not at the throttle end.
- O Check whether the mode connectors are properly connected or not at the controller end.
- Check the connecting wires of the mode selector from throttle end to controller end, it should not have any physical damage or short circuit if any damage in wiring changes all modes wires have the same colour code.
- O Check the o/p voltage of mode selector pins at the controller end, it should have 5 V.

If your charger does not work

- The power indicator light does not illuminate.
- O Check whether there is an alternating current power supply.
- Check whether the connection is bad at the input interface.

If the charger is always in green

- Check whether the charger DC connection is well with the battery.
- Check whether short circuits or reverse connections.
- Check whether the battery is fully charged.

If the charging indicator light does not work

- Check whether the output connector is well connected.
- Check for terminal damages at the battery and charger end.
- Check whether the battery can be used.

If there are other faults

- When you encounter a problem that cannot be resolved on your own or you are unsure about the problem please consult OEM / OEM Partner / Authorized Dealer / Dealer.
- Faults pertaining to the inner workings of the motor, controller, charger, and battery-if so, do not dismantle the parts on your own.

If the motor or throttle not working but not showing in the instrumental cluster (Speedometer)

- First check for any wiring damages in the throttle
- O Then check for the motor connections if any wire is damaged or came out.
- Then check for any hazard/motor/throttle symbol in the instrumental cluster (Speedometer)
- If there is no indication showing in the cluster then press the ONE BUTTON REPAIR switch 3 times and then continuously press that button and simultaneously move the throttle in a clockwise direction.
- By doing this the vehicle will start running.
- O Continue doing this until you reach the repair shop or house.
- Then contact the dealer to get it repaired as soon as possible.

NOTE

- ONE BUTTON REPAIR SWITCH button should be used for emergency purposes only.
- ONE BUTTON REPAIR SWITCH button should be used only when there is a failure in the motor or throttle but not showing any indication in the cluster.

When you eliminate the conditions above, please ask for help from the manufacturer.

Please do not attempt to repair it by yourself.

FAQs



GENERAL

• Do I need a license to ride my e- vehicle on the road?

Ans: No, you do not require any license to ride your e-vehicle in line with exemptions as provided by Govt for respective Products.

• Do my vehicle catch fire?

Ans: Rarely, if the temperatures of the components in the vehicle increase beyond their permissible limits. So it is recommended that always park the vehicles in shaded areas and don't charge the vehicle beyond its operating temperature.

• How fast will my e-vehicle go?

Ans: The speed defined per regulation is up to 25 km/hr.

• How should I clean my e-vehicle?

Ans: Clean your e-vehicle with a normal, damp cloth. Don't splash water on the e-vehicle.

• Where can I ride my e-vehicle?

Ans: You can ride your e-vehicle on any kind of road, including inclines.

• Can an e-vehicle go uphill?

Ans: Yes, a battery-operated vehicle can easily go uphill, the only difference that makes is you need to get a more powerful battery for traveling long ranges as going uphill will consume more battery which would reduce the average traveling distance per charge of your e-scooter.

• Can we ride e-vehicle in rain?

Ans: Yes, you can comfortably ride the electric scooter in the rain, as the motor is an IP65 motor that is water-resistant up to 65mm for 30 min.

BATTERY

How long will the battery take to recharge?

Ans: The Li-lon battery will take between 3 to 4 hours to recharge.

. How should I look after my battery?

Ans: Avoid any damage or water seepage to the battery.

• How to extend my battery life?

Ans: Don't drain the battery beyond 10%.

• Should I completely drain the battery before charging it?

Ans: Though you can charge the battery anytime, letting the battery drain up to 10% before charging it is recommended.

• Does the battery heat up on charge?

Ans: Yes, it may get slightly warm.

. What type of precaution do we need to take when the battery is getting overheated while charging?

Ans: Disconnect the charger from the battery and allow it to cool for 3-4 hours

• What are the advantages of lithium-ion batteries?.

Ans: 1) Long cycle life and extended shelf-life 2) Low maintenance and higher efficiency 3) Lower self-discharge

Does my vehicle has a portable battery?

Ans: Yes we give portable batteries with their vehicles.

. What should we do when a battery catches fire?

Ans: In case of smoke or fire, DO NOT POUR WATER ON DAMAGED BATTERY. Use a powered-coated extinguisher and sand to isolate the battery.

CHARGER

Can I charge my vehicle at home?

Ans: Yes, charging can be done in two ways

- (1) Onboard charging (connecting charger directly to the vehicle when the battery is inside).
- (2) Taking out the battery and connecting the charger directly to the battery.

It can be charged by a regular 6 Amp socket with ease.

How much cost does it take to charge my vehicle?

Ans: It costs 10 paise per km ie; around Re1 per charge.

During voltage fluctuations or low voltages is it safe to charge?

Ans: If the supply voltage is irregular or expected to vary drastically please use a voltage stabilizer for charging.

What happens if I disconnect the battery without turning off the MCB?

Ans: It may affect the battery performance and lead to a void battery warranty.

Which charging method is efficient onboard charging or charging directly to the battery?

Ans: There is no difference between them as in both cases battery takes some time to charge and takes the same time to discharge.

SERVICE

How should I clean my e-vehicle?

Ans: Clean your e-vehicle with a normal, damp cloth. Don't splash water on the e-vehicle.

How often should the e-vehicle be inspected?

Ans: It is recommended that your e-vehicle be inspected at least once in a quarter as per the information provided in your Service Coupons. Ensure that the inspection is carried out by an OEM partner/Authorized Dealer/Dealer.

DRIVING METHODS



1. SAFETY MEASURES

- Leaving the ignition cum steering lock in ON position for a prolonged time will drain the battery when the vehicle is not in use. Switch OFF and take out when the vehicle is not in use.
- O Always lock the steering while parking for safety.
- The charging time of the battery may vary, depending upon the battery state of charging.
- O Always park the vehicle on a flat, firm surface in a shaded area and away from the flood, fire, and other unsafe environments.
- It is recommended to avoid driving in the rain (during situations where the roads are water logged or during heavy down pour or during low visibility) as it may affect the motor.

2. PROPER METHOD OF DRIVING

Proper Driving method for Maximum Range:

- 1) Do not hold brakes while riding as it reduces the life of your brakes and burns extra energy in the process, thus reducing your efficiency.
- 2) Avoid overloading your scooter.
- 3) Rapid acceleration and riding at high speeds also use more battery power.
- 4) Maintain the recommended tire pressure always.

O Precautions:

- 1) Switch ON the vehicle only after sitting comfortably in a proper position.
- 2) Ensure proper working of switches, horns, lights and breaks before riding the vehicle.
- 3) After washing the vehicle or having driven through wet roads check for the proper working of breaks.
- 4) Avoid parking and driving through water levels higher than the motor height to prevent water entry inside the motor.
- 5) Switch Off the MCB while connecting or disconnecting the battery.

Note: Do not turn the throttle when you are not seated properly on the vehicle.

Accelerating the vehicle:

- 1) Once seated firmly over the vehicle, disengage the parking switch.
- 2) Release the brake fully and gradually turn the throttle clockwise, and the vehicle moves.
- 3) In order to increase the speed, adjust the throttle further clockwise.
- 4) Accelerate gradually at all times, especially setting off or climbing up slopes to save electric power.

2. PROPER METHOD OF DRIVING

Braking the vehicle:

- 1) It is most effective to use both front and rear brakes gradually & simultaneously.
- 2) To apply the brake, release the throttle and apply both the brakes gradually to reduce the speed of the vehicle.
- 3) Do not apply the brakes suddenly or make drastic turns.
- 4) Do not accelerate suddenly soon after applying the brakes.
- 5) Ensure that the brake levers are released before accelerating.

Stopping the vehicle:

- 1) Signal when nearing the parking spot, and apply brakes gradually.
- 2) Once the vehicle is stopped turn the key to the OFF position before getting down / parking.
- 3) To enable steering lock, turn the handlebar to the left, push and turn the key to the "LOCK" position and remove the key.

3. SAFE DRIVING PRECAUTIONS

- Always wear a helmet while driving the vehicle.
- Before driving for the first time read thoroughly the instructions in this manual and follow them carefully.
- o Single hand driving and drunken driving acts are extremely dangerous and should be avoided.
- Slippery surfaces due to rain can cause danger. Therefore, avoid speed driving and exercise extra caution when executing a turn. Also, remember to apply brakes early in bad weather conditions to prevent accidents.
- O Avoid driving on loose sand or stones where the vehicle is likely to skid.
- Wear loose comfortable clothing that allows free body movement.
- O Do not carry weight on the stepping board.
- Do not overload the vehicle more than its carrying capacity.
- O Carry goods only in the designated compartments to avoid damaging the vehicle.
- O Do not place cotton material near the electric motor.
- Please observe the traffic rules and keep within the safety speed limit.
- Make it a habit to check the vehicle before driving. It's best to use a soft cloth to wash and wipe the vehicle regularly.
- O Do not splash water directly on the brake drums, motor and the front and rear axles. Water retention can affect vehicle performance and shorten the lifespan. Do not use steam repressor hose to wash your vehicle.

4. PRE-DRIVE CHECKS

O Check the wheels:

- 1) Check if the pressure in the tires is normal Gauge the pressure of the wheel from the amount of contact it makes with the ground. If the pressure is not normal, use a pressure gauge to measure the pressure when the tires have cooled down.
- 2) Check if the pressure in the tires is normal Gauge the pressure of the wheel from the amount of contact it makes with the ground. If the pressure is not normal, use a pressure gauge to measure the pressure when the tires have cooled down.

Wheels	Pressure in PSI
Front	36
Rear	36

- 3) Check if there are tears or damages to the tires.
- 4) Check if there are any nails, stones, glasses, material stuck, or damage to the tire.
- 5) Check the tire treads thickness. If the markings are two-thirds worn out, it's time to change them.

Lights turn indicator unit check:

- 1) Power on the vehicle and check if all the lights in front, and in the rear are working condition. Also, check if the headlights glow bright enough.
- 2) Check the front and rear brake lights are in working condition.
- 3) Check the turn indicator lights are in working condition.

Checking the rear-view mirror:

- 1) Make sure that you can see the rear and side area of the vehicle in the rear-view mirror in the driving position.
- 2) Check the rear-view mirror is free from dirt and damage.

O Damaged / Dirty reflector:

1) Make sure that the reflector is not dirty or Damaged.

Check Vehicle Handles:

- 1) Move the handles up, down, front, back, left, and right to make sure that it is not loose.
- 2) Check if Handles are too tight and ensure free movement.

5. REGULAR CHECKS

To lengthen the life span of the vehicle, allowing it to be driven safely and comfortably, please check and maintain the vehicle regularly. Perform thorough checks if the vehicle has not been used for a long time.

Perform maintenance checks in a safer manner

- 1) Choose a spacious and even ground to perform checks.
- 2) If a maintenance check needs to be performed while driving, it should be done in a safe place and at the same time observe the safety precautions.
- 3) If you discover anything that's not normal, please resolve the problems before continuing your journey. If you cannot resolve the problem, please contact the service centre to check out the problem.

Check Functional parts

- 1) Check the front fork of the vehicle for any bent or damaged, shake the handle of the vehicle, making sure that no abnormal sounds are coming from the front fork of the vehicle. If there are, please contact your service center.
- 2) Check the braking device for its effectiveness-drive along dry even roads at a slow speed, apply front and rear brakes, and test their effectiveness.
- 3) When driving in rain or snowy weather, the braking distance required may be more.

If you do not possess appropriate tools and monitoring equipment, please go to a service center to check.

WARRANTY CARD (DEALERS COPY)

Model Name: Coupon No.:

·
Owner Name :
Address :
Mobile No : Email :
City : State : Pin :
Sold on : DD MM Year
Invoice No : Date :
Colour :
Frame No :
Controller No. :
Motor No :
Battery No. : Charger No. :

WARRANTY CARD (CUSTOMER COPY)

Model Name : Coupon No. :
Owner Name :
Address :
Mobile No : Email :
City: State: Pin:
Sold on : DD MM Year
Invoice No : Date :
Invoice No : Date :
Colour :
Colour :

Customer Signature

Customer Signature

Sign & Seal of Dealer

DISCLAIMER

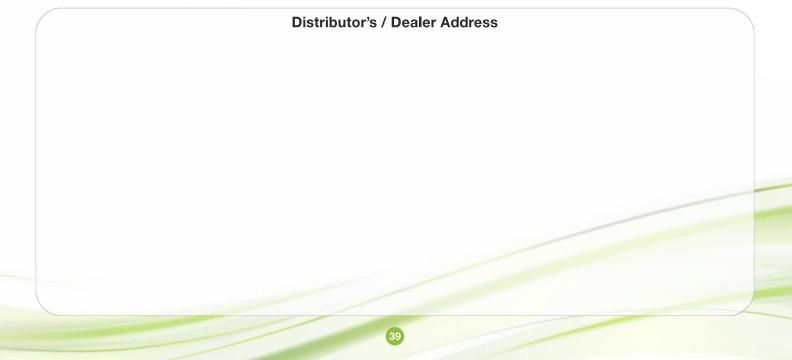


All equipment and models are described without indicating whether the equipment is optional or specific to the model type. This means that your vehicle may not have some of the equipment as described, or it may only be available in certain markets. You can contact OEM/OEM partners and their Dealers for further information.

All data in the owner's manual corresponds to the information available at the time of the manual going to print. Because the vehicle is constantly being developed and further improved, there may be variations between your vehicle and the data available in this owner's manual. No discrepancy in data, illustration, or descriptions shall form the basis for any legal claim.

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9. SERVICE INTERVALS

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th
120	240	360	480	600	720	840	960	1080	1200	1320	1440
DAYS/											
3000	6000	9000	12000	15000	18000	21000	24000	27000	30000	33000	36000
KM											

10. SERVICE RECORD SHEET

Service	Distance / Time period	Date	Km. Reading	Jobs carried out	Service Dealer (signature & stamp)
1st					
2nd					
3rd					
4th					
5th					

10. SERVICE RECORD SHEET

Service	Distance / Time period	Date	Km. Reading	Jobs carried out	Service Dealer (signature & stamp)
6th					
7th					
8th					
9th					
10th					
11th					
12th					

Note:

- Please ensure that the Dealer should fill and stamp for record.
- All are paid Services

VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	AUTHORIZED SELLER'S STAM	P
VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:		P
CUSTOMER NAME :		
	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	ALITHORIZED SELLER'S STAM	Р

VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	AUTHORIZED SELLER'S STAM	P
VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:		P
CUSTOMER NAME :		
	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	ALITHORIZED SELLER'S STAM	Р

VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	AUTHORIZED SELLER'S STAM	P
VEHICLE IDENTIFICATION NO :	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:		P
CUSTOMER NAME :		
	MODEL:	
BATTERY NO:	CHARGER NO:	
DATE OF SERVICE:		
SERVICE KMS:	ALITHORIZED SELLER'S STAM	Р



Manufactured by:

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