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"Regal Raptor retains the right to modify product specifications and colors without prior notification."

User and Maintenance Guide

Our esteemed client

First and foremost, we appreciate your choice in selecting us. Welcome to the Regal Raptor family! We are delighted to meet you and wish you many years of safe and enjoyable experiences with your vehicle. Your Regal Raptor motorcycle is crafted with cutting-edge technology and premium components to guarantee optimal performance and a durable user experience.

This Owner's and Maintenance Manual offers comprehensive technical, maintenance, and usage information essential for your motorcycle to function safely and at optimal performance in all traffic situations. It is important to read this manual thoroughly before operating your motorcycle. The information within this manual is crucial for both your safety and that of your motorcycle and must be adhered to. Complying with these guidelines will help guarantee the safety of yourself and those around you.

For maintenance, inspection, and repair requirements, we advise bringing your motorcycle to an authorized Regal Raptor service center to ensure optimal service. Consistent maintenance and inspections will enhance your motorcycle's performance and prolong its lifespan. All services that fall under warranty must be conducted at our authorized service centers; failure to do so will result in the warranty being deemed void. Your motorcycle is protected by a warranty against manufacturing defects for a period of 2 years or 30,000 km (whichever occurs first) from the date of purchase.

At Regal Raptor, our commitment lies in delivering a safe, durable, and high-quality driving experience. It is essential to prioritize maximum safety and precision during every drive. To guarantee the longevity and dependable performance of your vehicle, it is crucial to adhere to the guidelines outlined in this manual.

Wishing you pleasant and secure travels, Regal Raptor

- Significant Information
- No section of this User and Maintenance Manual may be duplicated, printed, or reproduced without prior authorization.
 - The details included in this guide represent the latest product specifications as of the publication date. Regal Motor retains the right to modify this guide without prior notification.
 - It is essential to read the manual thoroughly before operating your motorcycle. The motorcycle should be utilized in accordance with the conditions outlined in this manual. The warranty is contingent solely upon proper use and maintenance.

Security Details

Motorcycle riders hold the responsibility of ensuring safe riding practices on the road while adhering to their legal obligations. These duties encompass the safety of not only themselves but also other road users.

- Driver Responsibilities:
- A valid driver's license is required to operate a motorcycle, and it is essential to have the motorcycle's registration documents on hand.
- Compulsory traffic insurance provides coverage for material and bodily injuries inflicted on third parties during accidents.
- Always wear protective gear including helmets, gloves, jackets, and boots. This gear is essential in the event of accidents.
- Driving while impaired by alcohol or drugs constitutes not only a legal violation but also presents significant safety hazards.

- Factors to Keep in Mind for Safe Driving
- Utilization of Protective Gear:
- Wear a certified helmet that provides full protection.
 - Use gloves that are impact-resistant and non-slip, along with protective boots.
 - Select garments that possess protective and reflective qualities.

- Proper Driving Techniques:
- Consider that other vehicles might not see you.
 - Keep a safe distance and use your horn to communicate.
 - Decrease your speed and exercise caution before making turns.

- Environmental Influences:
- Decrease your speed on wet and slick surfaces.
 - Stay vigilant for hazards like potholes and unstable soil.

Guide Details

This guide outlines the fundamental usage and maintenance practices for your electric vehicle. It is important to read it thoroughly before you begin driving. By properly using and maintaining your vehicle, you can avoid malfunctions, ensure optimal performance, and prolong its lifespan.

Our local after-sales service center is dedicated to offering you the highest quality of service. This user manual provides up-to-date information, guidelines, technical specifications, and images related to the actual product. Our company retains the right to implement changes without prior notification.

Thank you for selecting Regal Raptor. We trust that you will appreciate the comfort and enjoyment it offers during your upcoming travels. Should you transfer ownership of this product to someone else, kindly ensure that the owner's manual is returned along with the product.

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Cautious Driving

Attention

It is essential to adhere to local traffic safety regulations and thoroughly check your vehicle prior to driving.

Kindly refrain from operating the vehicle on the highway.

Safe Driving Guidelines

Kindly verify the pressure of your tires.

It is essential to inspect the brake function on a daily basis.

Please modify the seat position accordingly to ensure you can drive your vehicle comfortably.

Please reposition the rearview mirror to enhance visibility.

Please initiate the vehicle using the key and assess the battery's electrical capacity. Please shift into the appropriate forward or reverse position, and gradually accelerate by using the throttle located on the right side. Remain mindful of your speed to prevent any avoidable accidents.

Please lower your speed when taking a turn.

Apply the brakes to stop the vehicle, turn off the engine each time you halt, and then activate the handbrake.

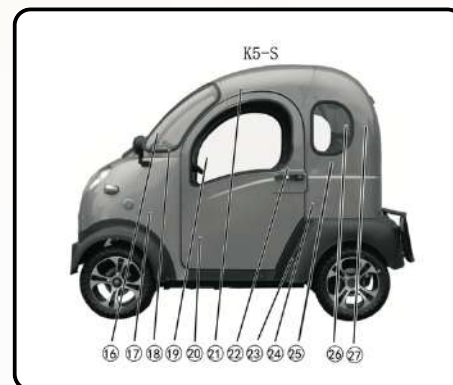
Emergency situations:

If the electrical system does not shut down because of a malfunction or other issue, promptly turn off the control switch.

Privatization:

Any alterations or adjustments made to the original configuration do not ensure safe driving; furthermore, this is against the law. Users are required to adhere to the regulations set forth by the transportation department.

Introduction to the Components



- ⑩ Left front windshield
- ⑪ Left side trim
- ⑫ Left front window
- ⑬ Left door glass
- ⑭ Left door assembly
- ⑮ Left roof panel
- ⑯ Left door lock
- ⑰ Left wheel cover
- ⑱ Left rear guard
- ⑲ Left rear roof panel
- ⑳ Left rear window glass
- ㉑ Right rear window glass

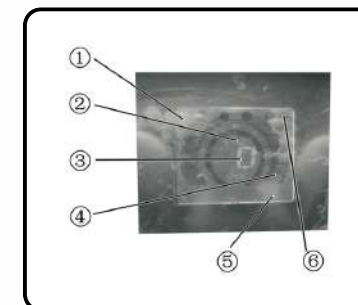


- ① Right mirror
- ② Turn signal lamp
- ③ Front center window
- ④ Windshield
- ⑤ Windshield wiper
- ⑥ Right headlight
- ⑦ Front trim
- ⑧ Left headlight
- ⑨ Lower front trim
- ⑩ Upper center roof panel
- ⑪ Left turn signal lamp
- ⑫ Front fender
- ⑬ Left mirror



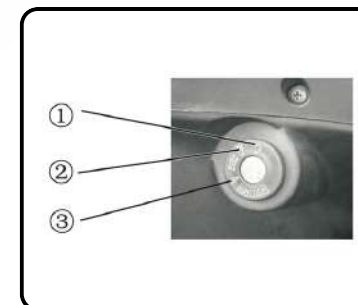
- ⑧ Left rear combination lamp
- ⑨ Wheel cover mounting bracket
- ⑩ Rear center trim
- ⑪ Rear center roof panel
- ⑫ Rear window
- ⑬ Right rear combination lamp

Speedometer



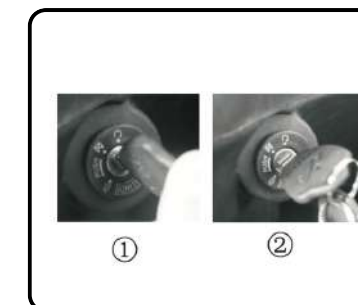
- ① Left Turn Signal Indicator
Lights up when activated.
- ② High Beam Indicator
Lights up when the high beam is switched on.
- ③ Speedometer
Displays the speed in km/h.
- ④ Voltmeter
Displays the voltage.
- ⑤ Odometer
Displays the distance travelled.
- ⑥ Right Turn Signal Indicator
Lights up when activated.

Key



- Position ①: In the "O" position, the vehicle is powered on; it can be driven forward or in reverse, but the key cannot be removed.
- Position ②: In the "x" position, the electrical circuit is switched off.
- Position ③: Steering lock position.

Ignition switch



- Position ①: In this position, the circuit is on; the vehicle can be started and driven forward or in reverse, but the key cannot be removed.
- Position ②: The circuit is off.

Steering Wheel

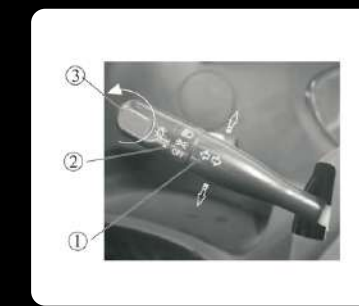


Press the horn button ④. Activate the horn by pressing the button, and release it to cease the sound.

Attention

Before operating the vehicle, ensure that the control unit can move freely. The control unit must be able to move without any hindrance.

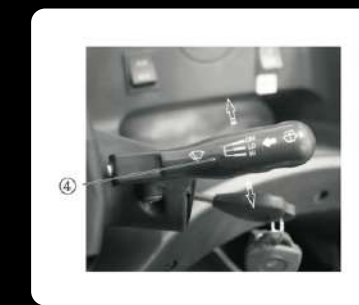
Signal Control Handle



Signal Lights: Pull the lever upward to engage the right signal, and pull it downward to engage the left signal.

- 2. Light adjustment switch: Rotate the left end to modify the lighting.
- Position 1: High beam and low beam headlights
- Position 2: Parking lamps
- Position 3: Turn signals disabled

③ To switch between high and low beams: pull up for low beams and pull down for high beams.



④ Wiper: Pull back to activate the wiper.

Pedals



Steering wheel

1. Accelerator pedal 2. Brake pedal

Caution: Prior to riding, ensure that the pedals are functioning correctly. There should be no obstacles beneath either pedal.

Keys



③ Speed Limiting Switch

When switched on, high-speed mode is activated. When switched off, the vehicle operates at normal speed.

④ Electronic Brake Switch

When switched on, it assists with braking.

Power Button



⑤ Switch No. 5 is located at the front of the seat.

When set to the “ON” position, the vehicle operates.

When set to the “OFF” position, the vehicle power is switched off.

Seat Adjustment



Pull lever ① and move the seat to the left or right from point ② to adjust it to the appropriate position. When the desired position is reached, release the lever; it will lock automatically. If it does not lock, move the seat slightly until it locks into place.

Caution

Adjust the seat only when the vehicle is switched off, and make sure the seat is securely locked while driving.



Door Lock



Refer to lock ③. Use the upper section to unlock it, then press the lock to open the door.

Engine Lubricant Oil



To change the oil, detach the oil drain bolt plug. Oil will flow out once the drain bolt is loosened. Reattach the bolt after the procedure is finished.

Wheels

Attention

Operating vehicles with excessively worn tires poses significant dangers; it adversely impacts steering control and road handling. Improper tire pressure can result in tread deterioration and accidents.

Note: Inspect the tires prior to driving. If any issues are detected, they must be replaced with new ones.

Minimum tooth depth (mm)

Front: 1.5 Rear: 2.0

Proper tire pressure preserves tire stability and guarantees extended durability.

Load

Driver

Tire pressure (kilopascals)

Front: 250 Rear: 250

Battery

Charger

Insert the charger into the charging port and connect it to the power source.

The red light signifies that the battery is in the process of charging; the estimated charging duration is around 10 to 12 hours.

The transition of the light from red to green signifies that the charging process has been completed.

Attention

Verify the voltage prior to charging.



Charging Socket

When charging the vehicle, just connect the charger to the socket and the power source. A complete charge requires about 10–12 hours. If the vehicle will not be utilized for a long time, make sure to fully charge the battery each month; otherwise, it could be damaged. Activate the parking brake and turn off the vehicle during charging.

The charger must be utilized in an area with adequate airflow, away from fire or combustible materials. If the charging connector (the metal component) is damaged, please ensure it is repaired or replaced.

The charger is a specialized device; ensure that the voltage and Ah ratings of the charger are accurate. Refrain from activating the charger.

Battery Charge

Power loss happens when the battery is inactive. This power loss indicates that the battery has not been charged promptly. Consequently, this results in sulfation during its storage life, a reduction in battery capacity, and potentially more severe battery damage after extended periods of inactivity. Therefore, it is essential to charge the battery at least once a month and also after each use.

If the driving range unexpectedly drops by more than 10 km, it is possible that one of the batteries is defective. In such a situation, reach out to your local dealer or service center for an inspection; repair or replace the battery pack if needed. This approach can prolong the battery's lifespan and lower your expenses.

The vehicle releases a high current during starting, passenger transport, and climbing uphill. Consequently, sudden acceleration should be avoided. High discharge leads to the crystallization of sulfuric acid, which damages the physical structure of the battery plates.

Under typical usage, it is essential to monitor the battery charge level. If the indicator displays 50–60%, it is advisable to charge it; if it falls to 20–30%, you should cease driving and initiate charging. Failing to do so may lead to over-discharging, which can reduce the battery's lifespan. In instances of overcharging, the battery may overheat and lose water. Generally, the battery charging duration is 10 hours. If the battery temperature exceeds 65°C, discontinue charging and verify whether it is fully charged.

Please refrain from leaving your vehicle in direct sunlight. This can lead to a decline in the battery's internal pressure, hastening its aging process.

If the power plug becomes loose or corroded, it may overheat; this can ultimately result in a short circuit or inadequate connection, harming the charger and battery and leading to unnecessary losses.

Clean or replace the connecting clip if it becomes corroded.

Please verify the battery electrolyte level. Typically, distilled water should be added after 3 to 6 months of usage.
Maintenance Checklist

Please inspect your vehicle following the instructions provided below. The interpretations of the symbols are as follows:
I: Inspect C: Sanitize R: Substitute A: Modify L: Oil

Inspect, clean, modify, lubricate, or substitute.
The required inspections should be conducted by a technician, or maintenance should be executed with specialized tools and components.
A qualified service technician should service these parts.

Scheduled Maintenance

Fault	The reason	Solution
The voltage indicator does not work when the ignition is switched on.	1. The circuit may be disconnected. 2. The voltage indicator may be faulty.	1. Locate and reconnect the circuit connection point. 2. Change the voltage indicator.
The voltage indicator is working, but the vehicle is not moving.	1. The electrical circuit may not be working properly. 2. The battery voltage may be too low. 3. The parking brake may not be fully released. 4. The electronic components may be damaged.	1. Check the cable connections and reconnect any loose ones. 2. Check the battery voltage. 3. Release the parking brake completely. 4. Identify the faulty part: motor, speed controller, control unit, etc. Contact a service center if necessary.
Brake problem	1. The two brakes may not be working in sync. 2. The brake pads may be worn.	1. Adjust the brakes. 2. Replace the brake pads.
The engine is not producing power.	Power outage.	Charge it.
It's not charging fully.	1. The charging plug may be faulty. 2. The charger may be faulty. 3. There may be a problem with the battery.	1. Replace the charging plug. 2. Replace the charger. 3. Check/resolve the battery malfunction.

Technical Specifications

Feature	Value
Engine	2300W Brushless
Battery	72V 23Ah
Charging Time	5-6 Hours
Maximum Speed	45 km/s
Driving Distance	40-50 km
Front/Rear Brake	Disk/Disk
Front/Rear Tire	80/90-12
Rim	Aluminum Alloy
Length	2100 mm
Width	920 mm
Height	1605 mm
Wheelbase	1450 mm
Capacity	2 Person

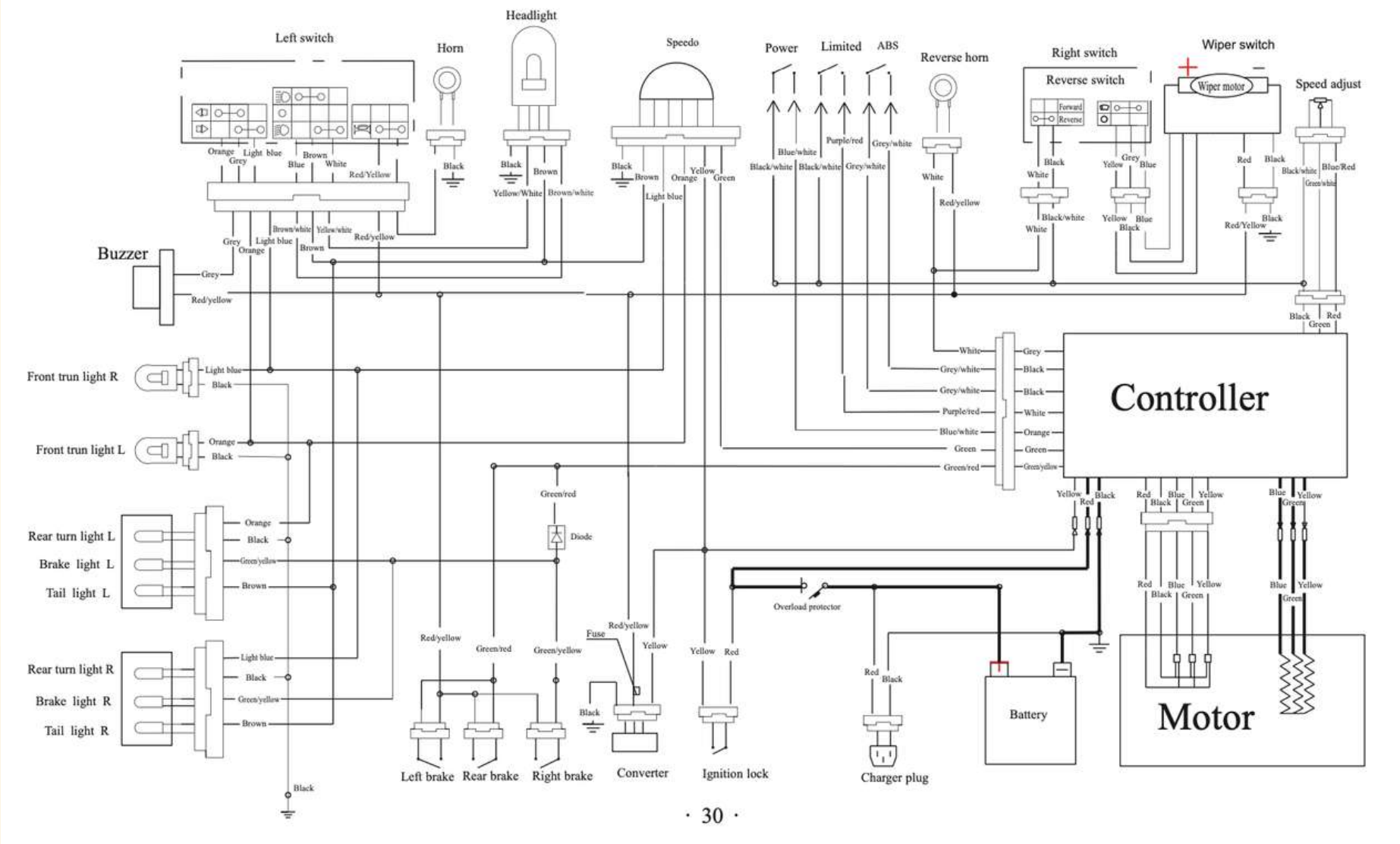
IMPORTANT NOTICE!

- ① The battery and brakes must be checked before driving. If any problem is detected, it must be resolved before the vehicle is used.
- ② Before repairing or replacing any charging components or fuses, switch off the vehicle and disconnect the charger.
- ③ Remember: If the vehicle is regularly used on rough roads or operated under excessive loads, the mounting points and welded joints must be checked daily. Any problem detected must be repaired promptly.
- ④ When parking, always switch off the vehicle, remove the key, and apply the parking brake.
- ⑤ Before repairing or replacing the battery or any electronic components, switch off the vehicle and disconnect the power supply.
- ⑥ When children are inside the vehicle, the vehicle must be switched off and the keys must be removed.
- ⑦ Before driving, check that all doors are properly closed.
- ⑧ The charging area must be kept away from children and located where they cannot reach or touch it.
- ⑨ If the vehicle catches fire due to an accident or any other reason, disconnect the power supply immediately.
- ⑩ To prevent accidents, switch off the ignition when parking.
- ⑪ The vehicle must be transported on a platform. When towing or transporting is necessary, the towing or transport speed must be lower than the vehicle’s normal operating speed. To prevent damage to the electronic components, protect the motor and controller connections and maintain the insulation of the motor cables.
- ⑫ The alarm system must not be activated unless there is an emergency. The turn signal lamps do not operate while the alarm system is active.

Fault	The reason	Solution
The voltage indicator does not work when the ignition is switched on.	1. The circuit may be disconnected. 2. The voltage indicator may be faulty.	1. Locate and reconnect the circuit connection point. 2. Change the voltage indicator.
The voltage indicator is working, but the vehicle is not moving.	1. The electrical circuit may not be working properly. 2. The battery voltage may be too low. 3. The parking brake may not be fully released. 4. The electronic components may be damaged.	1. Check the cable connections and reconnect any loose ones. 2. Check the battery voltage. 3. Release the parking brake completely. 4. Identify the faulty part: motor, speed controller, control unit, etc. Contact a service center if necessary.
Brake problem	1. The two brakes may not be working in sync. 2. The brake pads may be worn.	1. Adjust the brakes. 2. Replace the brake pads.
The engine is not producing power.	Power outage.	Charge it.
It's not charging fully.	1. The charging plug may be faulty. 2. The charger may be faulty. 3. There may be a problem with the battery.	1. Replace the charging plug. 2. Replace the charger. 3. Check/resolve the battery malfunction.

ENGINE COMPARTMENT																
The first and second maintenance must be performed within 500 km or within 6 months, whichever comes first.	Km	500	2,000	4,000	6,000	8,000	10,000	12,000	16,000	18,000	20,000	22,000	24,000	26,000	28,000	30,000
	Months	3	6	9	12	15	18	21	24	30	33	36	39	42	45	48
ITEMS TO BE INSPECTED																
Check differential oil level.		D				D	*	*	*	D	*	*	*	D	*	*
Check and tighten front wheel hub.		*	*	*	*	D	*	*	*	D	*	*	*	D	*	*
Check and top up coolant level.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check and top up brake fluid level.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check for loose, worn, or damaged high-voltage cables.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Clean the surface of the battery box and check the connections and insulation condition.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check brake vacuum tank and hose connections.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check the electric motor wiring.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CHASSIS & EXTERIOR																
The first and second maintenance must be performed within 500 km or within 6 months, whichever comes first.	Km	500	2,000	4,000	6,000	8,000	12,000	14,000	16,000	18,000	20,000	22,000	24,000	26,000	28,000	30,000
	Months	3	6	9	12	15	18	21	24	30	33	36	39	42	45	48
ITEMS TO BE INSPECTED																
Check front and rear brake function.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check interior and exterior lighting, horns, and system warning indicators.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check windshield wiper and washer function.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check operation of the emergency light switch.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check seat operation.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check door lock function.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check the condition and air pressure of the tires.		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Check and top up tire pressure.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
UNDERBODY																
The first and second maintenance must be performed within 500 km or within 6 months, whichever comes first.	Km	500	2,000	4,000	6,000	8,000	10,000	14,000	16,000	18,000	20,000	22,000	24,000	26,000	28,000	30,000
	Months	3	6	9	12	15	18	21	24	30	33	36	39	42	45	48
ITEMS TO BE INSPECTED																
Check for loose, worn, or damaged high-voltage cables.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check for loose, worn, or damaged high-voltage battery box and connections.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check tire bolts for looseness, damage, and wear.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Torque all mounting bolts.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check for frame bending, deformation, or cracking.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check for looseness of high-voltage battery mounting bolts (tighten to 100 N·m).		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check and adjust brake pedal and lever free play.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check front and rear brake lever and brake cable condition.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check power steering system for looseness and proper function.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check front suspension system.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check steering system.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Lubricate all lubrication points and moving parts.		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Check drive axle assembly for wear and play (quality control).		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Test Guide: D: Replace *: Inspect, and if necessary, adjust T: Clean, tighten, and lubricate																

Cable Schematic



Left switch: Left-hand control, Horn: Horn, Headlight: Headlight, Speedo: Speedometer, Power: Power, Limited: Speed limiter, ABS: ABS, Reverse horn: Reverse warning horn, Right switch: Right-hand control, Wiper switch: Wiper switch, Wiper motor: Wiper motor, Speed adjust: Speed adjustment, Controller: Controller, Motor: Motor, Battery: Battery, Charger plug: Charger plug, Ignition lock: Ignition switch, Converter: Converter, Left brake: Left brake, Rear brake: Rear brake, Right brake: Right brake, Fuse: Fuse, Diode: Diode, Overload protector: Overload protector, Front turn light R: Front right turn signal lamp, Front turn light L: Front left turn signal lamp, Rear turn light L: Rear left turn signal lamp, Brake light L: Left brake lamp, Tail light L: Left tail lamp, Rear turn light R: Rear right turn signal lamp, Brake light R: Right brake lamp, Tail light R: Right tail lamp.

Periodic Maintenance Schedule

Chassis No: _____

500 KM.	2.000 KM.	4.000 KM.
KM:	KM:	KM:
DATE:/...../20.....	DATE:/...../20.....	DATE:/...../20.....
STAMP	STAMP	STAMP
6.000 KM.	8.000 KM.	10.000 KM.
KM:	KM:	KM:
DATE:/...../20.....	DATE:/...../20.....	DATE:/...../20.....
STAMP	STAMP	STAMP
12.000 KM.	14.000 KM.	16.000 KM.
KM:	KM:	KM:
DATE:/...../20.....	DATE:/...../20.....	DATE:/...../20.....
STAMP	STAMP	STAMP

18.000 KM.	20.000 KM.	22.000 KM.
KM:	KM:	KM:
DATE:/...../20.....	DATE:/...../20.....	DATE:/...../20.....
STAMP	STAMP	STAMP
24.000 KM.	26.000 KM.	28.000 KM.
KM:	KM:	KM:
DATE:/...../20.....	DATE:/...../20.....	DATE:/...../20.....
STAMP	STAMP	STAMP
30.000 KM.	ODOMETER REPLACEMENT	
KM:	KM:	DATE:/...../20.....
DATE:/...../20.....	KM:	DATE:/...../20.....
STAMP	KM:	DATE:/...../20.....
	Note: The information regarding the procedures performed must be completed and stamped by our authorized service. Warranty cards with missing or incomplete information will be considered invalid.	

Checklist - Part 1		Checklist - Part 2	
There are no scratches, dents, or damage on the exterior surface.		The checks listed in the service manual have been performed.	
The signals are working properly.		The spare key has been delivered.	
The tires were checked.		The brakes, clutch, throttle, and overall driving performance are adequate.	
All the lights were checked to make sure they were working.		Road testing was conducted.	
Engine oil level is correct.		The type of fuel she would use was explained.	
The brake fluid level is sufficient and the brakes are effective.		All warranty terms and maintenance schedules were explained.	
Chain/belt tension and lubrication were checked.		The instructions on how to check engine oil were explained.	
The clutch and throttle are working properly.		Information about the break-in period was provided.	
The coolant level is sufficient.		Information was provided on the correct use of the motorcycle.	
The battery is fully charged and in working order.		It was reminded that the ignition should be switched off during refueling.	
The speed, RPM, and fuel gauges are working correctly.		Warranty information was provided.	
The key works.		Confirmation that the motorcycle has been delivered in perfect condition.	
VEHICLE OWNER			
Name Surname			
Telephone			
Signature			

