

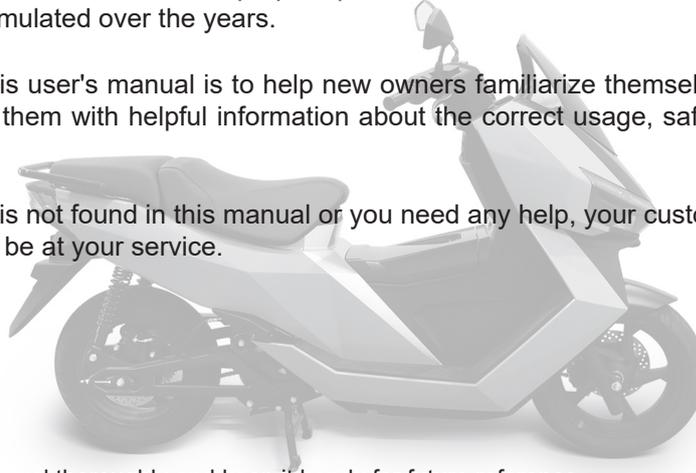
## WE APPRECIATE YOU FOR PURCHASING GS100, THE ELECTRIC SCOOTER FROM DAEDONG MOBILITY

Congratulations on becoming the owner of the eco-friendly Daedong Mobility **GS100 SERIES (GS100, GS100 LITE, GS100 LITE PLUG-IN)** electric scooter.

Our electric scooter is crafted with top-quality Daedong Mobility components, adhering to rigorous quality standards set by our quality assurance office. Information for proper operation of this electric scooter is based on advanced technologies and reliable data accumulated over the years.

Furthermore, the goal of this user's manual is to help new owners familiarize themselves with the **GS100 SERIE** electric scooter and to provide them with helpful information about the correct usage, safe operation, and maintenance of the electric scooter.

If the information you seek is not found in this manual or you need any help, your customer service center will be happy to help you. We are glad to be at your service.



### < NOTE >

- Make sure to read this manual thoroughly and keep it handy for future reference.
  - In addition, if you rent or transfer the vehicle, please consider the user's manual as a part of the vehicle and pass the user's manual along with the vehicle.
  - The specifications in this manual are subject to change without notice.
- ※ Purchase and service inquiries: Please contact your dealer for inquiries.

Homepage: [www.daedongmobility.co.kr](http://www.daedongmobility.co.kr)

## GUIDE FOR USING THIS MANUAL

1. This user's manual contains information on how to properly handle the vehicle you purchased, how to drive safely, how to perform simple routine maintenance, and how to get it serviced. Get instructions on how to use your vehicle from your dealer.
2. It contains many cautionary statements about maintaining or servicing electric scooters. Neglecting to adhere to cautionary statements or operating instructions may lead to severe injury or fatalities for occupants or others during use. It may also result in damage to the product or its components during repair or use.
3. Any malfunctions caused by non-genuine chargers, non-genuine parts, or non-genuine oil are not covered by the warranty. For optimal performance and the longevity of your vehicle, always utilize genuine parts.
4. Do not add, modify, or repair parts not authorized by the manufacturer, unless explicitly stated in the user's manual or required by law.
5. When you receive the user manual, be sure to receive face-to-face training from a sales representative using the attached brochure.

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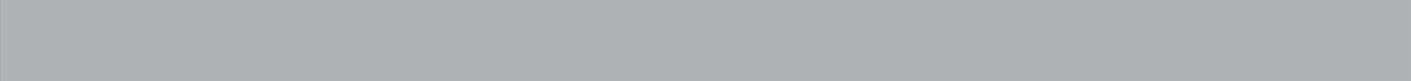
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**END USER TRAINING CERTIFICATE**

**PDI CHECK SHEET**

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# SAFETY AND VEHICLE DAMAGE WARNING

This manual includes information titled as **DANGER**, **WARNING**, **CAUTION**, **IMPORTANT** and **NOTE**. These titles indicate the following:



**DANGER**

This indicates that a condition may result in harm, serious injury or death to you or other persons. The signal word “DANGER” is to be limited to the most extreme situations.



**WARNING**

This indicates that a condition may result in harm, serious injury or death to you or other persons. Follow the advice provided with the warning.



**CAUTION**

This indicates that a condition may result in damage to your vehicle or its equipment. Follow the advice provided with the caution.



**IMPORTANT**

This mark indicates emphasis on notable characteristics of working procedures, and information about technology for easier operation.



**NOTE**

This indicates that interesting or helpful information is being provided.

# UNIVERSAL SYMBOLS

In this manual, various symbols are used as guides for operation of your electric scooter. Below is a list of the universal symbols and their meanings.

	Power drop	<b>TRIP A</b>	Trip mileage A		Horn
	System failure	<b>TRIP B</b>	Trip mileage B		REGEN button
	Battery replacement indicator 0	<b>REGEN</b>	Regenerative braking status		Start (READY) button
	Battery replacement indicator 1	<b>READY</b>	READY indicator		Coolant temperature [GS100]
<b>OP</b>	Battery cover open [GS100 LITE/ PLUG-IN]		Turn signal lamp	<b>P</b>	Paring [GS100]
<b>RE</b>	Reverse [GS100 LITE/ PLUG-IN]		Low beam	<b>R</b>	Reverse [GS100]
<b>CH</b>	Charging [GS100 LITE PLUG-IN]		High beam	<b>D</b>	Forward [GS100]
<b>NORMAL</b>	Driving mode: Normal		Warning lamp		
<b>ECO</b>	Driving mode: Eco		Auxiliary battery charge warning lamp		
<b>SPORTS</b>	Driving mode: Sports		Drive battery warning lamp		

# FOR SAFE DRIVING

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## SAFETY PRECAUTIONS BEFORE DRIVING

The following contents describe the safety cautions, categorized into WARNING and CAUTION. Before the initial operation, read this manual carefully for your safety.

The safety instructions described in this chapter are for the general issues of the vehicle. The safety measures are also covered and repeated in the corresponding chapters in this manual.

It is to ensure economic, correct and safe use of your vehicle for an extended period of time. Have your vehicle repaired or serviced by your workshop if possible.

### CAUTION

- **Be sure to read the user's manual and drive safely.**
- **Be sure to adhere to the speed limit.**
- **Do not make illegal modifications that interfere with safe driving.**
- **Turn on the headlamp low beam during the day.**

### CAUTION

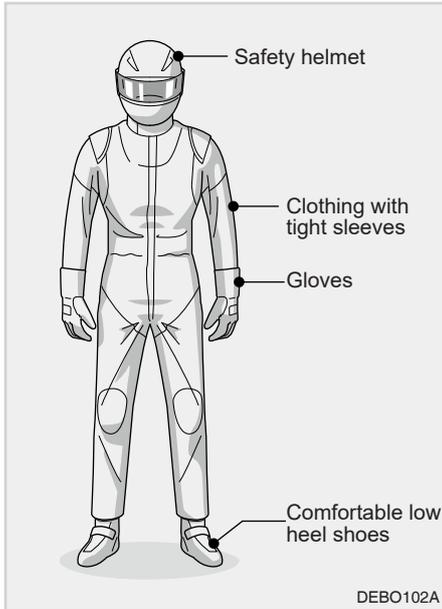
- **Conduct maintenance in accordance with the specified maintenance chart in Chapter 6.**
- **This vehicle is designed to function as either a two-seater or a single-seater. Do not exceed the maximum allowed number of riders.**

The following should never be allowed to operate this vehicle.

- Those under the influence of alcohol
- Pregnant woman who is ready to bear
- Those who do not have a motorcycle driving license, at least
- Those who do not have an automotive driving license
- Those who are fatigued, sick or under the influence of medicine; others who are not qualified for certain reasons to operate this machine

### CAUTION

- **Do not operate the machine with fatigue. Take a rest if necessary. Sleep deprivation can lead to unforeseen accidents, potentially resulting in fatalities or legal consequences.**



### ⚠ WARNING

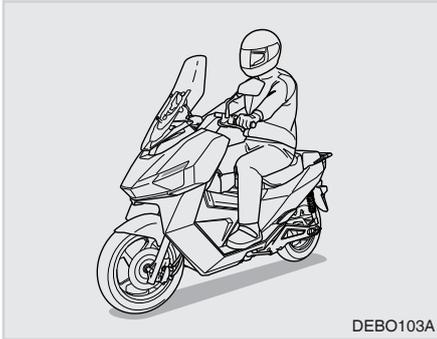
- **Ensuring your comfort and dressing appropriately is crucial for your safety; therefore, please wear the recommended attire for driving.**

### ⚠ WARNING

- **Rollovers and collisions can result in death or serious injury.**
- **Riding without a helmet or neglecting to wear a chin strap while using a helmet can lead to death or serious injury, especially in a rollover accident.**
- **Ensure to wear protective eyewear when using a half helmet. Flying objects striking your eyes and face can result in death or serious injury during a rollover accident if you are not wearing protective eyewear.**
- **Loose clothing on the driver and passenger can lead to death or serious injury in a vehicle rollover if the clothing becomes entangled around the wheels while driving.**

### ⚠ WARNING

- **Wear high-visibility clothing and wear a glow-in-the-dark band when riding at night. If you are not easily identifiable by other drivers, a collision accident may occur.**
- **Avoid allowing clothing to become caught between the frame body cover and the wheels. If entangled, it can lead to a fire or hinder safe operation, resulting in accidental death or serious injury.**



DEBO103A

This vehicle is designed to operate as a two-seater.

Use other than the specified cannot be covered by warranty. The manufacturer is not liable for any damage resulting from unauthorized use, and such action can lead to a dangerous situation to a user.

This vehicle should be operated, serviced and repaired by a well-trained and skilled technician who is also aware of accompanying danger.

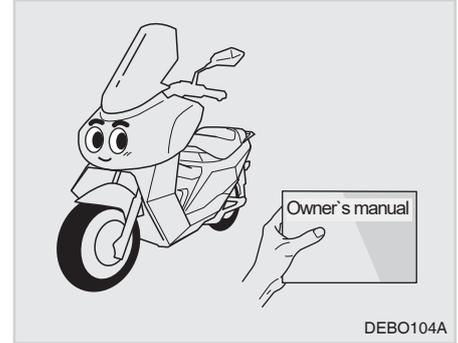
It is necessary to follow any applicable accident prevention practices, general health and safety standards and traffic regulations. The manufacturer is not liable for any damage resulting from unauthorized modification.

 **DANGER: Electric shock risk**

- **This vehicle is equipped with high-voltage electrical equipment. Tampering with electrical equipment can result in death or serious injury.**

 **CAUTION**

- **This vehicle is designed to operate as a two-seater. Do not exceed the maximum allowed number of riders. Failures resulting from exceeding the allowable number of riders are not eligible for warranty repair.**



DEBO104A

When leasing or transferring the vehicle, deliver this manual together with it for future safe operation.

 **CAUTION**

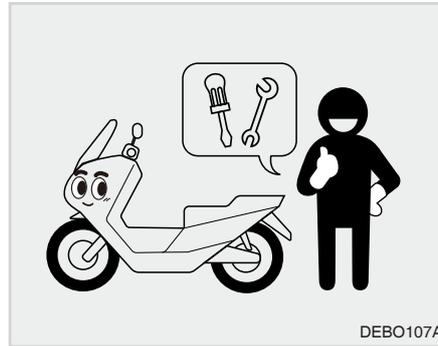
- **Otherwise, the new owner may not become familiar with the vehicle and can be subject to accidents.**



Do not let anyone come close to the vehicle while driving.

**! CAUTION**

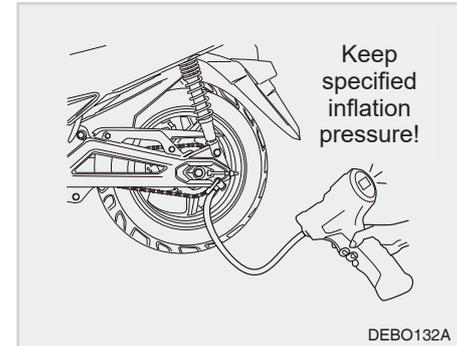
- **There is a risk of personal injury.**



Check safety conditions before driving, including lamps, horn, brake, and tire inflation pressure.

**! CAUTION**

- **Safety incidents can happen.**

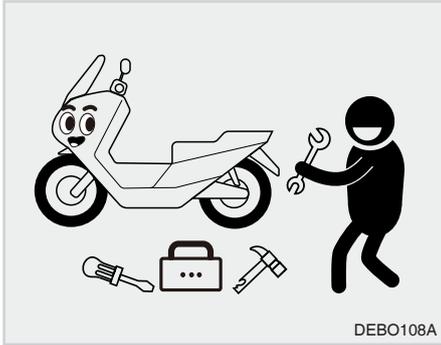


Keep the tires inflated to the specified pressure. Do not use a damaged or excessively worn tire. For replacement or repair of the tire, tube or rim, contact your dealer. 6-14 See the chapter on Inspecting and Replacing Tires.

**! WARNING**

- ***If inflating the tires excessively (too high inflation pressure), the tires can be ruptured, leading to an accident.***

## SAFETY PRECAUTIONS DURING DRIVING



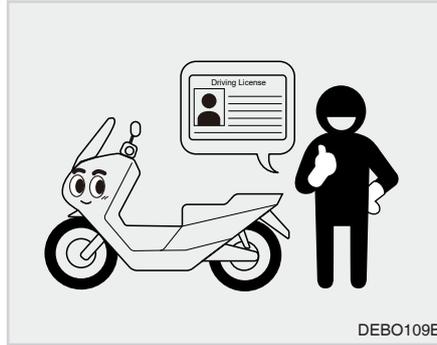
Inspect your vehicle before and after use and have any abnormalities repaired immediately by your local service center.

**⚠ CAUTION**

- An unexpected accident may happen due to the poor servicing.

**⚠ WARNING**

- Do not make any modifications or alterations to your vehicle.



Always have your automotive driving license or motorcycle driving license with you.

**⚠ CAUTION**

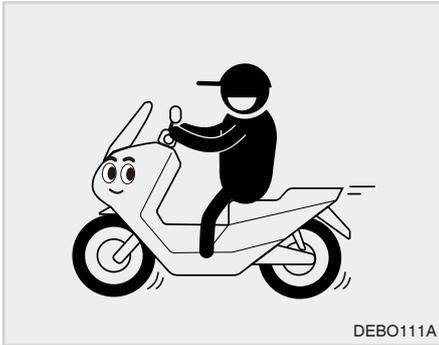
- Penalties will be imposed for violating a traffic law.



Never use your cell phone and headphones while driving.

**⚠ WARNING**

- Distractions can cause accidents.



When driving, always keep both hands on the handle grips and drive safely. Never make sharp steering maneuvers or drive with one hand.

**! WARNING**

- *It can lead to a rollover, resulting in death or serious injury.*



Avoid going barefoot or wearing sandals, open-heel shoes, high heels, or any other footwear that may impede your driving or obstruct your vision.

**! WARNING**

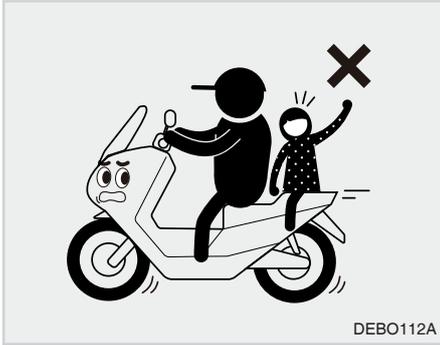
- *An unexpected accident can occur.*



Avoid driving on slippery or uneven roads.

**! WARNING**

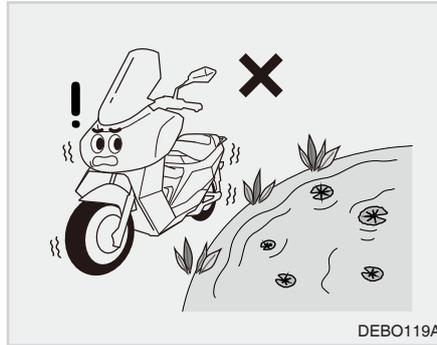
- *To prevent motor or circuit failure, driving in water deeper than 5 cm is prohibited.*
- *Be careful when driving on wet roads, roads covered with sand or gravel, roads with rough surfaces, unpaved roads, etc.*



Adhere to occupancy limits and prioritize safety when driving with a child.

**⚠ WARNING**

- *The force could eject you from the vehicle, resulting in death or serious injury.*



Avoid driving near deep water.

**⚠ WARNING**

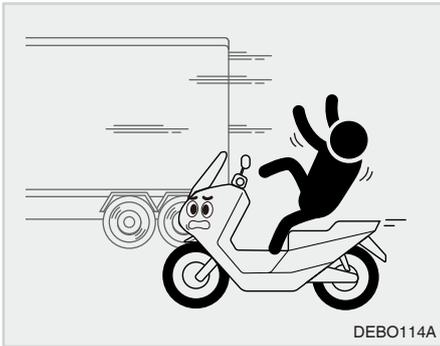
- *Unintentional drowning can result in death or serious injury.*



When driving, adhere to the posted speed limit.

**⚠ WARNING**

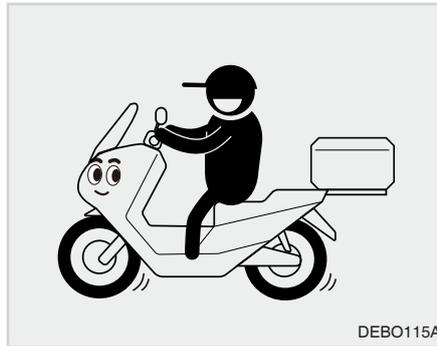
- *Unintended accidents may occur, or you may face legal consequences.*



Avoid driving alongside large vehicles when strong crosswinds are present.

### **⚠ WARNING**

- *There is a risk of colliding with a vehicle, resulting in severe injury or death.*



When loading cargo or objects, do not exceed a maximum weight of 30 kg. When loading cargo, including top boxes, the handling sensation changes compared to when the vehicle is unloaded. Therefore, drive safely with ample caution, ensuring never to overload and securely fastening the cargo. Avoid obstructing the front of the headlamp with cargo. If the lens melts due to overheating, it may result in damage to the cargo.

### **⚠ WARNING**

- *Avoid loading cargo near the handle, as it may hinder the ability to maneuver the handle.*
- *Refrain from loading cargo except in designated areas. Covers, etc., can be damaged, and excessive loading of floor panels, etc., can lead to unstable steering, potentially causing a rollover accident.*

### **⚠ CAUTION**

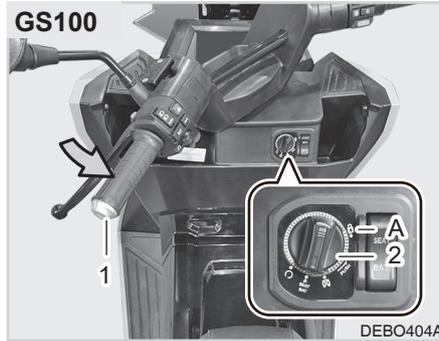
- *While driving, cargo can fall off and cause an accident.*
- *Nothing should be placed inside the battery box while the battery is assembled.*



If there is a vehicle in front of you or oncoming traffic, activate your headlamp low beam.

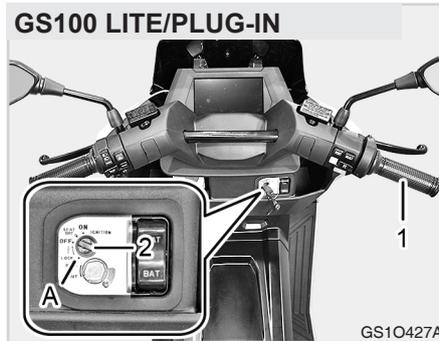
**⚠ WARNING**

- **You may obstruct visibility of other drivers coming from the opposite direction, leading to an accident.**



(1) Handle  
(2) Main switch  
(A) Handle lock

When parking, park on a level surface using the main stand, turn the steering handle to the left, and turn the main switch to the steering handle lock position.  
For details on steering handle lock, see page 4-25.



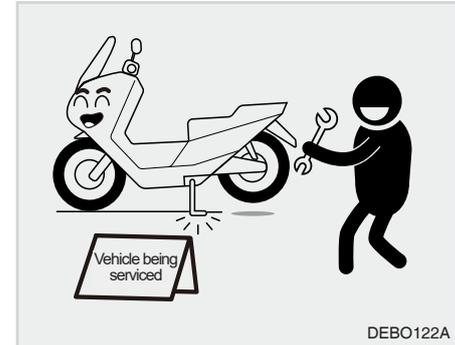
(1) Handle  
(2) Key switch  
(A) LOCK

## SAFETY PRECAUTIONS DURING CHECK



### ⚠ CAUTION

- **Modifications not only adversely impact the functionality of the vehicle but also contribute to safety incidents.**
- **If the changes are determined to be the result of modifications, warranty repair will not be applicable.**



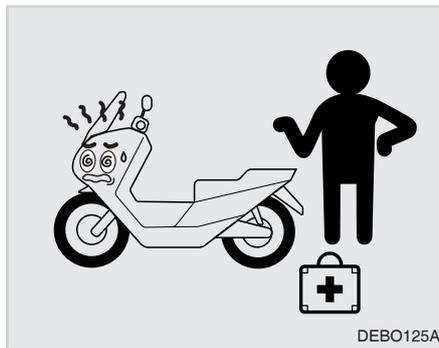
Do not modify the vehicle. Specifically, tampering with motors and batteries is strictly prohibited.

Modifications to the structure and function of the vehicle can impair its maneuverability, compromising safe driving or shortening the life of the vehicle. Such modifications are not only against the law but also harmful to others.

When inspecting, ensure to do so on a level surface. After stopping the vehicle and deploying the main stand, conduct the inspection.

 **CAUTION**

- The vehicle may move abruptly which can cause an accident.
- Utilize the main stand when parking on a ramp to ensure stability. The vehicle may be pushed forward or backward, posing a risk of accidents.
- Remove the battery from the vehicle before performing any check.



If the warning light illuminates or experience any driving problems while driving, stop driving and immediately seek assistance from a nearby service center.

 **CAUTION**

- Accidents, such as a vehicle breaking down, can occur.

## BATTERY CHARGING AND CARE PRECAUTIONS WHEN HANDLING BATTERIES



When checking the battery, keep flammable items (cigarette, lighter, etc.) away.

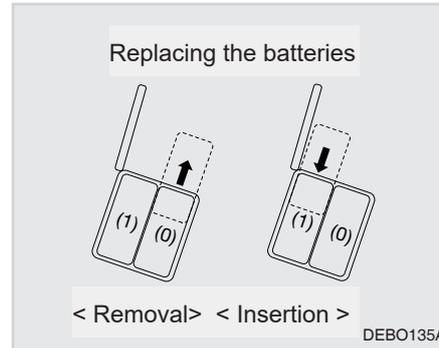
 **DANGER: Electric shock risk**

- High-voltage batteries cannot be disassembled or repaired. If any defect is identified in the battery, promptly have it inspected by your local service center.

## CHARGING AND MAINTAINING THE BATTERY

### **DANGER: Electric shock risk**

- Driving downhill in the key OFF state may lead to powertrain failure or fire due to overheating. (at 50 km/h or higher speed)



### Replacing the battery

Removal: Remove battery No. 0 first, followed by battery No. 1.

Insertion: Insert battery No. 1 first, then battery No. 0.

### **WARNING**

- *Be sure to remove any foreign material from the inside of the box and connectors before inserting the batteries.*

### **WARNING**

- *Check for damage to the connector pins before inserting the batteries.*
- *Insert the batteries correctly into the connector.*

### **CAUTION**

- *After changing batteries, there may be a key ON delay of approximately 3 seconds to check for internal system failures.*

** WARNING**

- *Refrain from connecting or disconnecting the battery without consulting the manual.*
- *Unauthorized use of the battery in any manner is strictly prohibited.*
- *The battery is equipped with safety devices; avoid disassembling, repairing, or altering its structure.*
- *Avoid leaving the battery unattended in areas with high ambient temperatures or near open flames.*
- *Prevent overheating by refraining from separately wrapping the battery or charger. Do not expose the battery or charger to direct sunlight.*
- *Avoid storing the charger or battery in humid, snowy, or rainy environments.*

** WARNING**

- *Handle batteries with care to prevent damage from shocks.*
- *Do not stack batteries.*

** DANGER: Electric shock risk**

- *Avoid short-circuiting the battery terminals.*
- *Refrain from directly discharging the battery.*

** CAUTION**

- *The battery can generate heat during use. Exercise caution during replacement.*
- *If the operating duration of your battery is shorter than usual, have your battery checked.*
- *While charging, using, and storing the battery, ensure distance from materials prone to static electricity.*

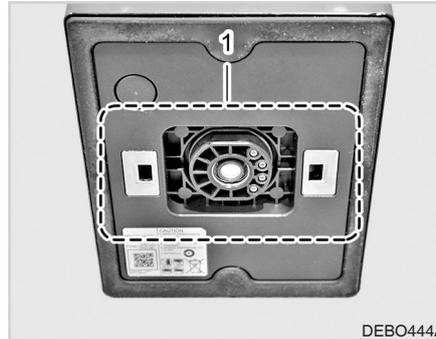
** CAUTION**

- *Keep the battery connectors clean and free from attachments.*
- *Avoid disassembling or altering the form and structure of the battery.*
- *In case of any abnormalities of the battery such as damage or deformation, cease vehicle use, turn off the motor and power, and contact a service center immediately.*
- *If the charger is not functioning, check whether the battery and charger are correctly connected, verify if the charger's alternating current voltage meets charging conditions, and inspect for overheating or overcurrent of the charger. If issues persist, disconnect the power and reconnect after a few seconds.*

## DRIVE BATTERY CONNECTIONS

### CAUTION

- Store the batteries indoors; if outdoor storage is necessary, remove the batteries and store them indoors.
- For prolonged storage without removal, maintain the batteries in a fully charged state.
- In case of dirt on the battery, clean it with a dry cloth.
- Extended storage with a low charge may lead to over-discharge, and in severe cases, the battery may be unable to recover.
- If the battery is stored for a long period of time with insufficient charge, it may become permanently damaged due to over-discharge.



(1) Drive battery connections

### DANGER: Electric shock risk

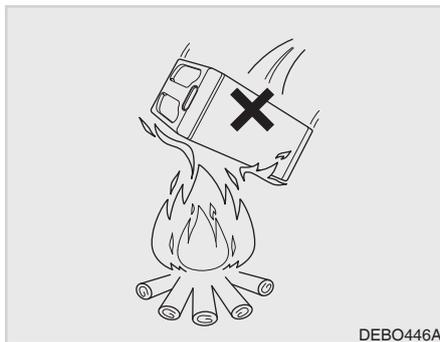
- *Avoid connecting wires to the battery connections. Doing so can lead to battery failure and pose a risk of electric shock.*

### WARNING

- *Maintain the cleanliness of the interior of the battery box at all times, and ensure that neither debris nor water enters the connectors within the battery box. Otherwise, it can cause serious malfunction.*

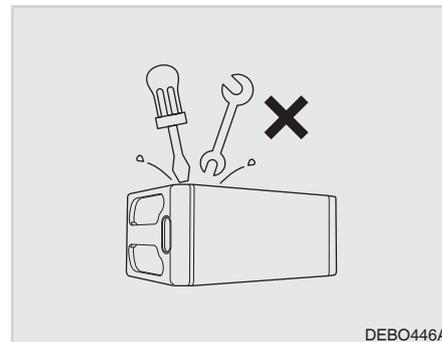


Avoid dropping the battery into water. If dropped carelessly, it may not function properly.



Do not place waste batteries near open flames.

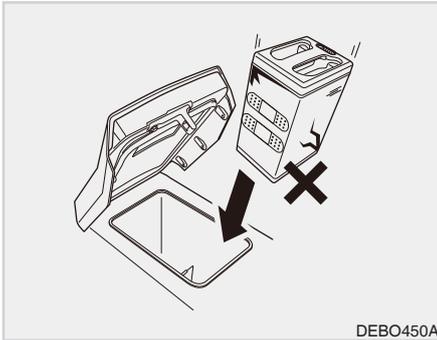
Waste batteries cannot be recycled. Return them to the nearest service center.



Do not attempt to disassemble the battery. Otherwise, it can cause malfunction.

 **DANGER: Electric shock risk**

- *Disassembling the battery will not be covered under warranty.*

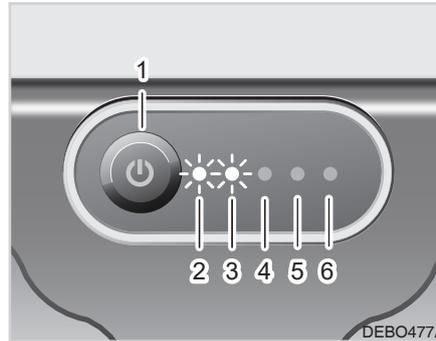


Do not use damaged batteries. Using them can cause serious malfunction.

### **⚠ WARNING**

- **Using a damaged battery can lead to severe consequences, including death or serious injury, as a faulty battery may cause the electrical system to shut down, trigger a fire, or contribute to a rollover or crash due to inoperable lights.**

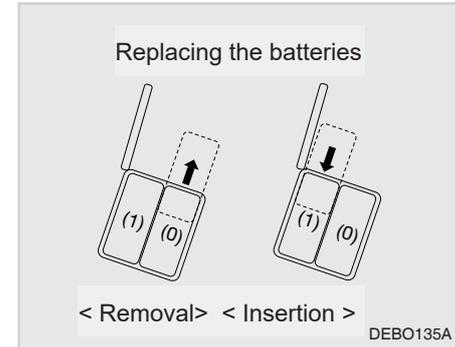
## CHECKING THE DRIVE BATTERY SOC



- |                      |                       |
|----------------------|-----------------------|
| (1) Button           | (2) LED 1 (0 ~ 20%)   |
| (3) LED 2 (21 ~ 40%) | (4) LED 3 (41 ~ 60%)  |
| (5) LED 4 (61 ~ 80%) | (6) LED 5 (81 ~ 100%) |

When pressing the button on the drive battery, the LEDs will illuminate to indicate the remaining charge level, with each LED representing 20% of the State of Charge (SOC).

## HOW TO REPLACE THE BATTERY IN THE BATTERY COMPARTMENT



Removal: Remove battery No. 0 first, followed by battery No. 1.

Insertion: Insert battery No. 1 first, then battery No. 0.

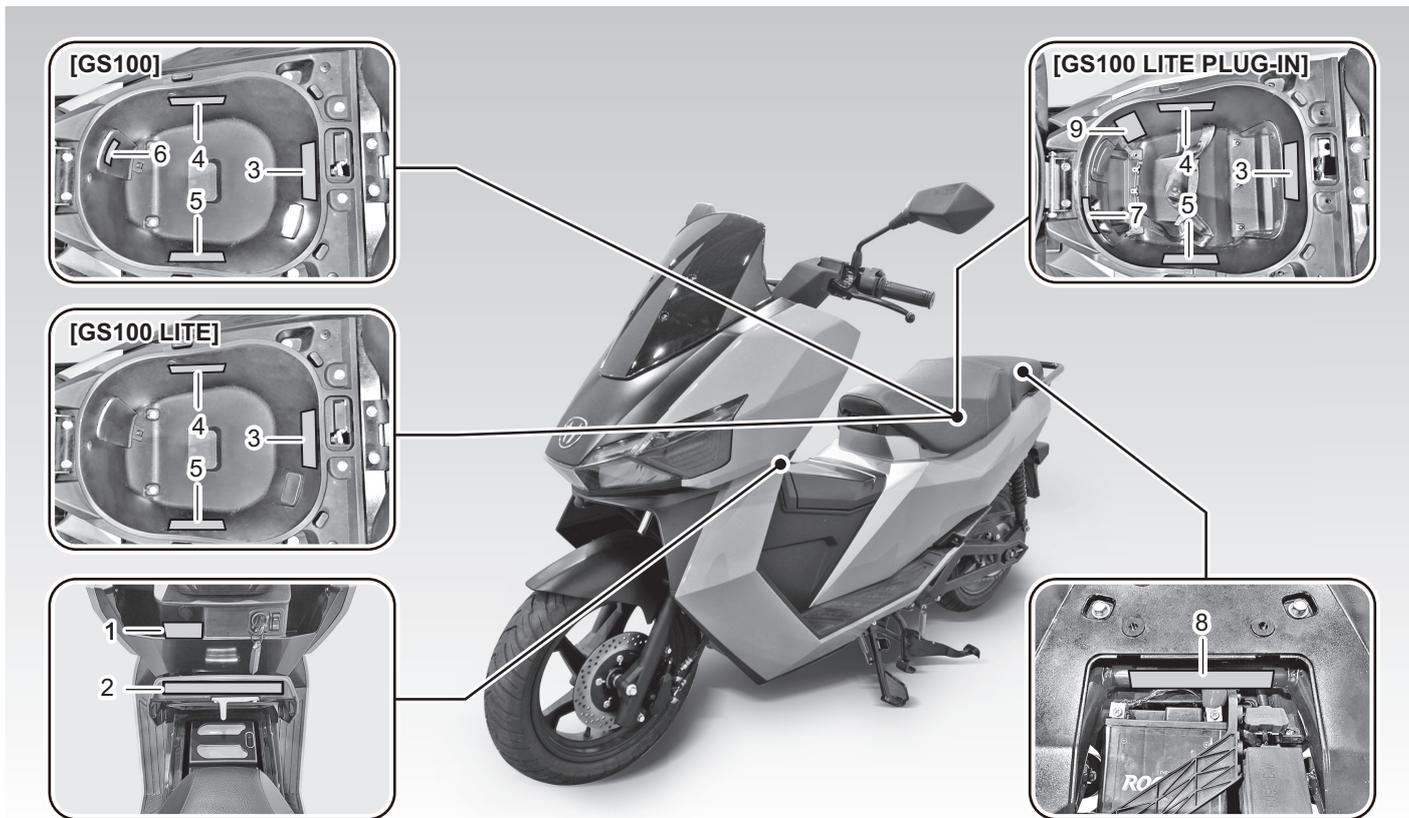
 **WARNING**

- *Check for damage to the connector pins before inserting the batteries.*
- *Insert the batteries correctly into the connector.*

 **CAUTION**

- **After changing batteries, there may be a key ON delay of approximately 3 seconds to check for internal system failures.**

## SAFETY DECAL MAINTENANCE MOUNTING LOCATIONS



## DECAL DESCRIPTION

### (1) Warning decal: Inspection

**WARNING**

- Be sure to read the user's manual before operating and driving.
  - Always wear safety gears such as a helmet.
  - Observe the speed limit.
- Reduce your speed when road surfaces are slippery or visibility is poor.
- Do not operate the vehicle under the influence of alcohol or drugs.
- Do not make any illegal modifications or disassembly or install electrical devices.
- Perform maintenance according to the periodic maintenance schedule in the user's manual.
- Use the front and rear brakes simultaneously.
- Inspection before driving
  - Instrument panel, horn, lamps, and brakes
  - Tires (pressure, damage, and abnormal wear)
- Use genuine motor oil.
- Fold the main stand and side stand before driving.
- Adjust the chain tension periodically.
- A new battery needs to be initially charged to 100%. For long-term storage, recharge it every month after a full charge.
- Charge the high-voltage battery immediately when its charge level is low.

GS13-0295

### (3) Warning decal: Luggage box

**WARNING**

- Make sure the seats are locked before driving.
- The maximum load weight of the storage box is 10 kg.
- Do not place anything fragile or valuable in the storage box.
- The inside of the storage box can get hot, and air and moisture can get in.

GS13-0297

### (5) Emission decal

**Vehicle Emission Control Information**

- Manufacturer: Daedong Mobility Co.
- Verification code: RMY-DM-21-18
- Type:
  - Type of Variant
  - Emission Noise: 0dB
- Range per charge (CVS40)
- Type of Variant
  - ① Normal temperature :
  - ② Low temperature :
- Maximum climbing angle of electric scooter: 27.7 degrees
- Manufacturer's warranty period for major parts

1 year or 10,000km	Charger
2 years or 20,000km Drive motors, motor controller, DC-DC converter, and battery pack	

This vehicle complies with the provisions of the Clean Air Conservation Act and Noise and Vibration Control Act.

Daedong Mobility Co. GS13-0349

### (4) Certification decal

Manufacturer: Daedong Mobility Co.  
 Year of manufacture: 20xx / XX  
 Gross Vehicle Weight: 255 kg

Front axle	Payload	Tire type	Inflation pressure	Rim type
Rear axle				

This vehicle is manufactured in accordance with the Korean Automobile Management Act.  
 VIN: KRKGS1CAXXXXXXXXXX  
 Type: Two-wheeled Vehicle: GS100 Lite

GS13-0348

### (6) Warning decal: Coolant (GS100)

**WARNING**

Do not open the rubber cap on the coolant reservoir while it is hot.

GS13-0298

### (2) Warning decal: Battery

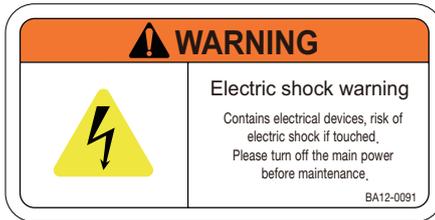
**WARNING**

- Replacing the battery
  1. Removal
    - Remove battery No. 0 first, followed by battery No. 1.
  2. Insertion
    - Insert battery No. 1 first, then battery No. 0.

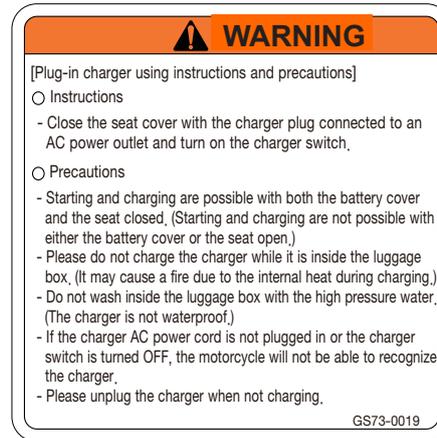
- Warnings for removing the batteries:
  - Be sure to remove any foreign material from the inside of the box and connectors before inserting the batteries.
  - Check for damage to the connector pins before inserting the batteries.
  - Insert the batteries correctly into the connector.

GS13-0296A

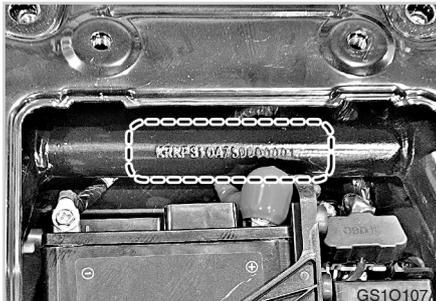
(7) Warning decal: Electric shock warning  
[GS100 LITE PLUG-IN]



(9) Warning decal: Plug-in charger  
[GS100 LITE PLUG-IN]



(8) Vehicle identification number location



## CAUTIONS FOR MAINTAINING DECALS

Safety decals are attached to the vehicle for safe operation. Make sure to follow the instruction on the decals as well as the following instruction:



### CAUTION

- **Keep the decals clean and intact. If any decal is dirty, wash it with soap and water and dry with a soft cloth.**
- **Never use a solvent, such as thinner or acetone, since it can ruin the decals.**
- **Do not spray high-pressure water directly onto the decal. The decal may fall off the vehicle.**



### IMPORTANT

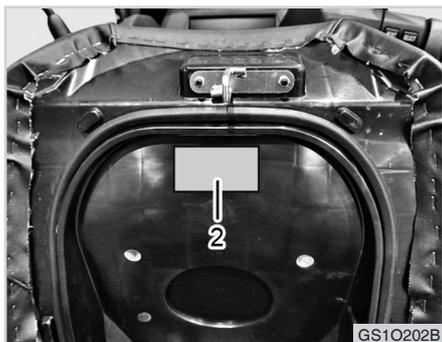
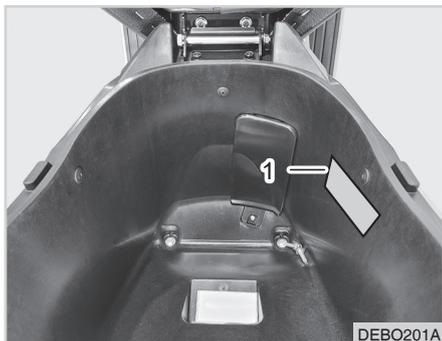
- **If a decal is damaged or lost, contact your local service center immediately to install a new decal.**
- **Make sure to attach the decal to the correct position cleanly without bubbles after cleaning its mounting surface.**
- **If a decal is attached to a component to be replaced, replace the decal as well.**

# BEFORE OPERATION

# 2

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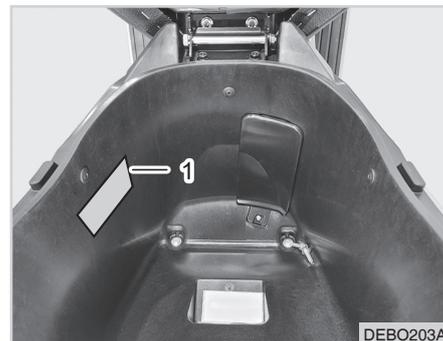
## VEHICLE IDENTIFICATION NUMBER PRODUCTION SERIAL NUMBER



(1) Certification decal

(2) Vehicle identification number, serial number

## EMISSIONS DECAL



(1) Emissions decal

The emissions decal indicates that the vehicle has been manufactured in compliance with applicable laws and is located on the left wall of the under-seat storage box that is visible when the seat cover is raised.

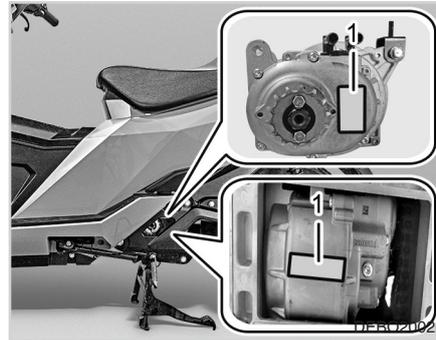
## VIN (VEHICLE IDENTIFICATION NUMBER)



(1) VIN stamp position

The VIN is stamped onto the main frame and can be accessed by opening the service window under the passenger seat.

## MOTOR SERIAL NUMBER



(1) Motor serial number

The motor serial number is indicated on the left-hand motor case or on the bottom of the motor.

The attachment position of the motor serial number is subject to change.

When in need of ordering parts or seeking service information, be prepared to give your dealer both the production serial number and motor serial number.

Fill in the following fields so that the production serial number and motor serial number can be provided immediately when service is needed:

• **Production serial number**

• **Motor serial number**

• **Date of Purchase**

(To be filled in by purchaser)

## ABOUT THE SERVICE SUPPLIES PROVIDED WHEN PURCHASING A VEHICLE

When you purchase our products, please check for the following supplies and receive and utilize them.

No.	Part name	Description
1	Certificate of manufacture of two-wheeled vehicle	-Needed during vehicle registration
2	User's manual	-Guide for proper handling, maintenance, and service -Quality assurance certificate -User Training Confirmation -PDI Check Sheet -Personal Information Collection and Use Consent Form
3	Ignition keys	Main key, spare key (2 keys))

### DOCUMENTS REQUIRED AT REGISTRATION

Reporting the usage of a two-wheeled vehicle, vehicle manufacture certificate, social security card, stamp, purchase receipt and tax invoice, liability insurance receipt

### USER TRAINING

Get face-to-face user training directly from your sales representative.

## WARRANTY TERMS AND CONDITIONS

### ► Warranty details

Products sold by Daedong Mobility are covered by a warranty for the free repair of manufacturing defects discovered under the customer's normal, customary use, and proper maintenance.

### ► Warranty period

1. 2 years or 20,000 km: electrical parts and body parts (1 year or 10,000 km for particular parts)
2. Oil, fluid and consumable parts such as brake pads and disks are not covered under warranty.

### NOTE

- For more information, refer to the Warranty Certificate in the Appendix of this manual.
- If you have any questions about the warranty terms, please contact your local service center or Customer Care. (Web page: [www.daedongmobility.co.kr](http://www.daedongmobility.co.kr))

## CASES NOT COVERED BY WARRANTY

- Even if within the warranty period, the following cases are not covered by the warranty.
- (1) Failures caused by neglecting to perform periodic maintenance or replace specified periodic replacement parts, as outlined by Daedong Mobility
  - (2) Failures caused by repairs conducted by shops other than authorized service centers
  - (3) Failures due to the use of non-genuine parts not specified by Daedong Mobility
  - (4) Failures resulting from modifications or alterations that are recognized to potentially affect the performance of the product  
(modifications to the motor or battery pack, changes to the height of the vehicle, changes to the overall length and lamps, changes to tire specifications, etc.)
  - (5) Failures caused by driver's inexperience or mishandling
  - (6) Failures caused by accidents and their impacts
  - (7) Failure caused by severe abuse, such as racing, or riding where motorcycles are not normally driven
  - (8) Failures due to natural disasters and fires
  - (9) Sensory anomalies that are recognized as having no general quality and functional impact  
(light noise, vibrations, etc.)
  - (10) If it is difficult to check the mileage (due to tampering, damage, etc.)
  - (11) Poor condition caused by the passage of time, natural fading of paint and plating, etc.
  - (12) Failures resulting from exceeding the specification limits set by Daedong Mobility  
(passenger capacity, load, motor revs, speed, etc.)
  - (13) Failure due to external factors such as soot, chemicals, foreign substances, salt, acid rain, metal dust, etc.
  - (14) Replacement and replenishment costs for consumable parts and oils (brake discs, bolts, nuts, washers, cables, fuses, rubbers, etc.)
  - (15) Cost of inconvenience and losses caused by the inability to operate products  
(phone bills, towing costs, rental car costs, travel costs, transportation costs, losses due to inability to operate, etc.)

## WARRANTY REPAIRS

- If your vehicle meets the warranty terms and conditions set by Daedong Mobility, we will provide a maintenance check at the nearest service center.

### NOTE

- Warranty repairs will be carried out only for issues specified in the warranty certificate, and any differences in interpretation will be addressed according to Daedong Mobility's judgment.
- Compensation for consumer damages is provided in accordance with the Consumer Damage Compensation Regulations (announced by the Ministry of Economy and Finance) in the event of a malfunction due to manufacturing defects of component parts during the normal use of this product.
- Defects caused by consumer negligence will not be repaired free of charge, even during the warranty repair period.

### NOTE

- If you fail to fill out the warranty registration form or bring it to a designated service location, you may not be eligible for warranty repairs.
- Defective items that have been repaired under warranty will not be taken out at will and will remain the property of Daedong Mobility.
- Failures repaired by non-designated service centers are excluded from warranty coverage.

## GUIDE TO USING GENUINE PARTS

Ensure to use genuine Daedong Mobility parts to extend the life and maintain optimal performance of the product.

Genuine Daedong Mobility parts can be purchased by contacting a designated service center.

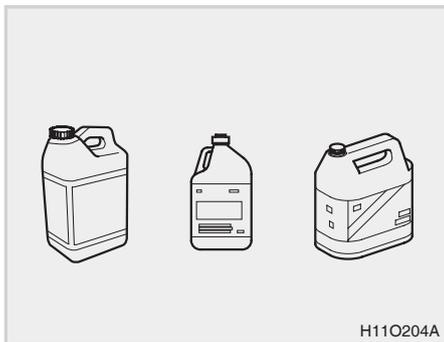
### CAUTION

- **Failures caused by the use of non-genuine parts are not covered by the product warranty and may result in a vehicle accident due to a quality defect. Be sure to use genuine parts.**

## **LAWS AND REGULATIONS FOR TWO-WHEELED VEHICLES**

- Two-wheeled vehicles must be registered with the town, county, or city office immediately after purchase.
- If you are caught driving without a timely registration or are involved in an accident, you may be fined and have your driver's license revoked.

## ESSENTIAL REPLACEMENT PARTS OILS AND FLUIDS



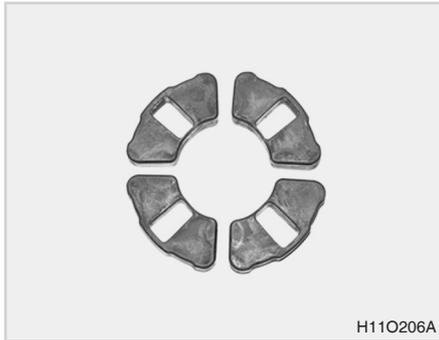
Various oils and fluids are used in this electric scooter for operation, lubrication, cooling, and anti-corrosion of various parts.

If oil or fluid is insufficient, contaminated or degraded, it can cause poor performance, incorrect operation, and seized parts of the vehicle, leading to mal-function.

Regularly add or change the fluid specified on the right to keep the electric scooter in good condition.

No.	Part name	Timing	Spec.	Capacity
1	Motor oil (All models)	30,000 km or 36 months	Gear oil SAE 80W 90	65 ± 5 g
2	Brake oil (All models)	20,000 km or 24 months	DOT 3 or equivalent	F: 53 cc R: 65 cc
3	Grease (All models)	If needed	SAE multi-purpose type grease	Pump the grease until a small amount oozes out through the gap, excluding the grease nipple.
4	Battery (All models)	10,000 km or 12 months	-	12 V(7.5 AH)
5	Brake pads and discs (All models)	If needed	-	-
6	Cain and tires (All models)	10,000 km or 12 months	-	-
7	Coolant (GS100)	30,000 km or 36 months	Fresh clean water with ethylene glycol	50:50 0.72L ~ 0.75L

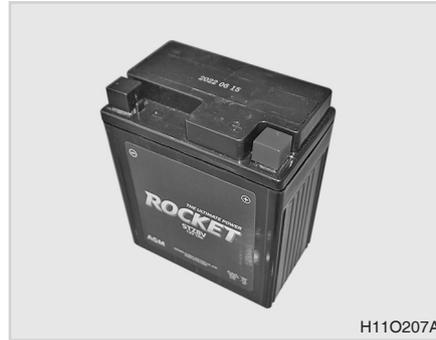
## RUBBER PARTS



Hoses and boots, which are made of rubber, get weakened and cracked as they age. If these parts are kept used in this state, they can be broken off, leading to a serious problem in the electric scooter.

Therefore, regularly check or replace those items to prevent the failure.

## AUXILIARY BATTERY



The auxiliary battery condition is very important for vehicle start performance especially in winter. Perform routine checks to prevent discharge.

If the vehicle is left without the auxiliary battery, it may discharge within 10 days. (can be different depending on its location and environment)

If discharged, contact your service center.

### NOTE

- Charging the auxiliary battery internally
  - If the auxiliary battery voltage is low after turning the key OFF, perform internal charging for two hours.
  - If the auxiliary battery voltage is low after monitoring it for 25 hours, conduct internal charging for two hours.

### CAUTION

- **If the vehicle is left without a high-voltage battery, the auxiliary battery may become discharged.**

MEMO



# *SPECIFICATIONS*

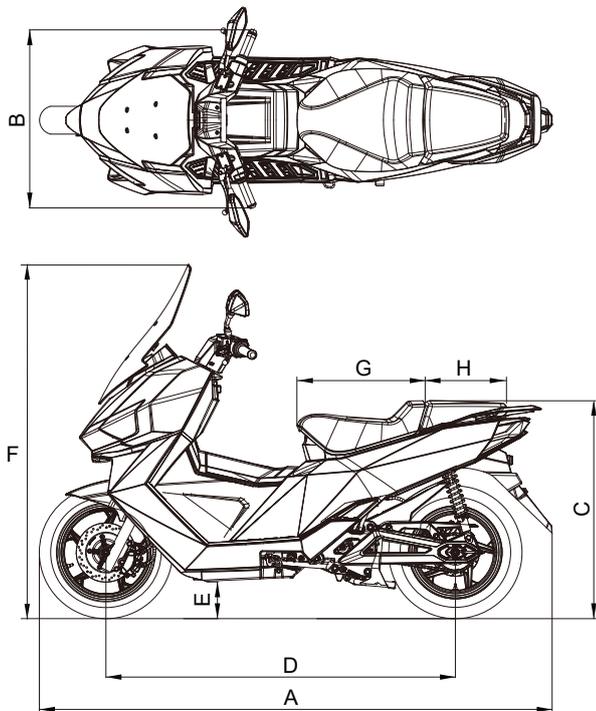
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## SPECIFICATIONS

### EXTERNAL DIMENSIONS

[GS100]

mm / in.

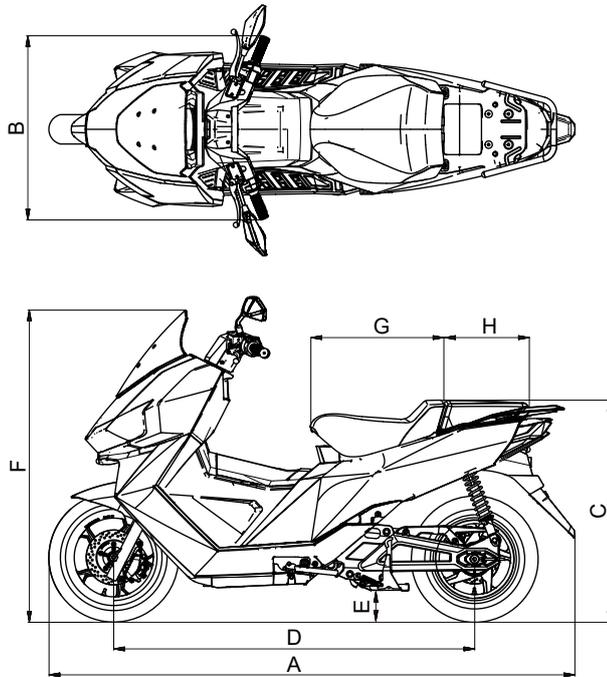


ITEM	GS100	REMARKS
1. Overall length (A)	1,980 (77.9)	
2. Overall width - 1 (B)	695 (27.4)	※ Ends of the handlebar grips
3. Seat height (C)	770 (30.3)	
4. Wheel base (D)	1,350 (53.0)	
5. Ground clearance (E)	140 (5.5)	
6. Overall height (F)	1,365 (53.7)	※ Variable windshield
7. Rider seat length (G)	480 (18.9)	
8. Passenger seat length (H)	315 (12.4)	

※ Note: These dimensions are for the exterior.

## [GS100 LITE/PLUG-IN]

mm / in.



ITEM	GS100 Lite GS100 Lite Plug-in	REMARKS
1. Overall length (A)	1,960 (77.2)	
2. Overall width (B)	695 (27.4)	※ Ends of the handlebar grips
3. Seat height (C)	760 (29.9)	
4. Wheel base (D)	1,350 (53.0)	
5. Ground clearance (E)	110 (4.3)	
6. Overall height (F)	1,170 (46.1)	
7. Rider seat length (G)	480 (18.9)	
8. Passenger seat length (H)	315 (12.4)	

※ Note: These dimensions are for the exterior.

## MAIN SPECIFICATIONS

ITEM			MODEL			
			GS100	GS100 Lite	GS100 Lite Plug-in	
M o t o r	Power	kW	6.8	6	←	
	Max. power	PS, kW / rpm	6.8 / 2,500	6.0 / 3,000	←	
	Motor type		PMSM	←	←	
B a t t e r y	Battery type		Lithium-ion	←	←	
	Battery voltage	V	51.6	←	←	
	Battery capacity	Ah (kWh)	30 (2.88)	←	←	
	Mounting type		103.3 V / 29.5 Ah	←	←	
D r i v a b i l i t y	Distance to empty (room temperature)	km	62	60.6	←	
	Distance to empty (low temperature)	km	46	43.2	←	
	Max. speed (0 ~ 400 m)	Forward	km/h	82	77	←
		Reverse	km/h	1	←	←
	Acceleration performance (from 0 km/h to 50 km/h)	sec.	4.9	5.9	←	
	Gradeability	%	55.8	52.4	←	
C a p a	Brake fluid	cc	After air bleeding, up to the upper limit of the brake fluid tank	←	←	
	Motor oil	g	65 ± 5	←	←	
	Coolant	L	Water cooled : 0.72 ~ 0.75	Air cooled	←	
D r i v e	Throttle method (electronic: direct connection/cable connection)		Direct connection	←	←	
	Power train		Chain/sprocket	←	←	

ITEM		MODEL		
		GS100	GS100 Lite	GS100 Lite Plug-in
Suspension system	Front wheel	Telescopic	←	←
	Rear wheel	Double shock unit swing arm	←	←
Main brake type	Front wheel	Mt. cylinder/ single disk (Ø226)	Mt. cylinder/ single disk (Ø206)	←
	Rear wheel	Mt. cylinder/ single disk (Ø186)	←	←
	Type	Hydraulic/coupled (CBS)	←	←
Tires	Front wheel	110/70-14 (50P)	110/70-13 (48P)	←
	Rear wheel	130/70-13 (63P)	120/70-12 (51P)	←
Turning radius	m	1.96	←	←
Curb weight	kg	135	125	←
Allowable max. load	kg	265	255	←
Rear tire height on stand (with main stand engaged)	mm	20~35	←	←
Side stand angle	°	12	←	←
Cast angle	°	27	←	←
Turning angle	°	45° for left/right side	←	←
Features	Black box	Optional	←	←
	Top box and carrier	Optional	←	←
	Cradle charger	Optional	←	←
	Windshield	Variable Windshield	Fixed Windshield	←

※ Note: The specifications are subject to change without notice.

MEMO



## FUNCTION DESCRIPTION AND OPERATING TIPS

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## FUNCTION DESCRIPTION AND OPERATING TIPS

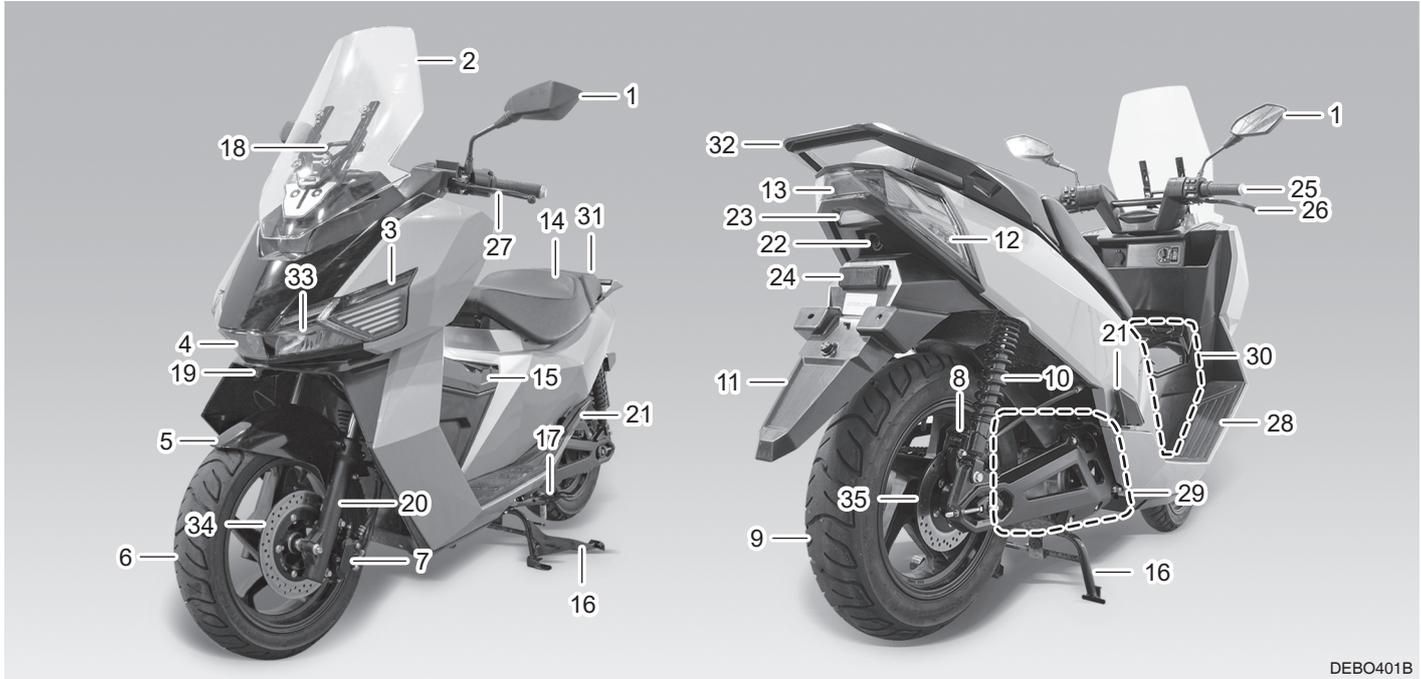
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## EXTERIOR VIEW

[GS100]



- (1) Rear view mirror
- (2) Windshield
- (3) Turn signal lamp (front)
- (4) High beam
- (5) Front wheel fender
- (6) Front wheel
- (7) Front wheel brake
- (8) Rear wheel brake

- (9) Rear wheel
- (10) Rear shock absorber
- (11) Rear wheel fender
- (12) Turn signal lamp (rear)
- (13) Brake lamp
- (14) Driver's seat
- (15) Drive battery compartment cover

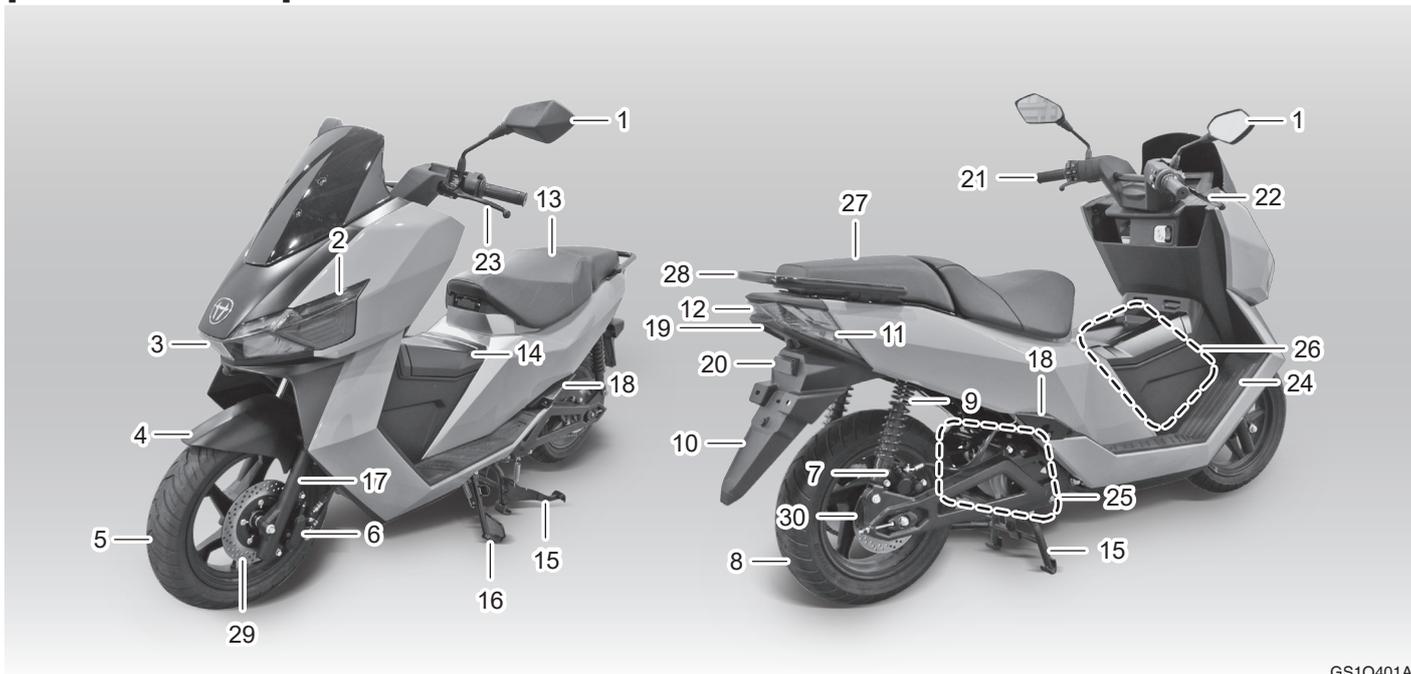
- (16) Main stand
- (17) Side stand
- (18) Windshield adjuster
- (19) Front dash cam camera
- (20) Front shock absorber
- (21) Passenger foot peg
- (22) Rear dash cam camera
- (23) License plate lamp

- (24) Reflector
- (25) Handlebar grip
- (26) Front wheel brake lever
- (27) Front/rear wheel brake lever
- (28) Driver foot rest
- (29) High voltage area (motor section)
- (30) Drive battery mounting area

- (31) Passenger seat
- (32) Carrier
- (33) Low beam
- (34) Brake disc (front wheel)
- (35) Brake disc (rear wheel)

DEBO401B

## [GS100 LITE/PLUG-IN]



GS10401A

(1) Rear view mirror  
 (2) Turn signal lamp (front)  
 (3) High beam  
 (4) Front wheel fender  
 (5) Front wheel  
 (6) Front wheel brake  
 (7) Rear wheel brake

(8) Rear wheel  
 (9) Rear shock absorber  
 (10) Rear wheel fender  
 (11) Turn signal lamp (rear)  
 (12) Brake lamp  
 (13) Driver's seat

(14) Drive battery compartment cover  
 (15) Main stand  
 (16) Side stand  
 (17) Front shock absorber  
 (18) Passenger foot peg  
 (19) License plate lamp

(20) Reflector  
 (21) Handlebar  
 (22) Front wheel brake lever  
 (23) Front/rear wheel brake lever  
 (24) Driver foot rest  
 (25) High voltage area (motor section)

(26) Drive battery mounting area  
 (27) Passenger seat  
 (28) Carrier  
 (29) Brake disc (front wheel)  
 (30) Brake disc (rear wheel)

## BATTERY PACK



(1) Battery 1

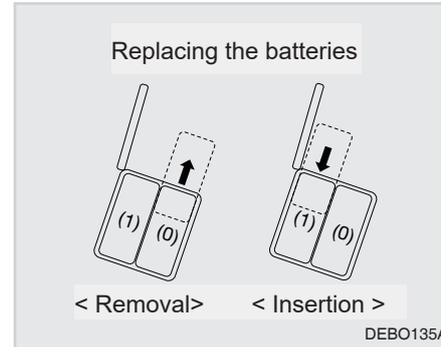
(2) Battery 0

This vehicle is equipped with two drive batteries. After opening the battery cover for battery removal and installation, ensure it is securely closed to activate the battery and prepare the vehicle for operation.

### CAUTION

- The vehicle will not start when the difference in the SOC between the two batteries is greater than 40%.

## REMOVING AND INSTALLING BATTERIES

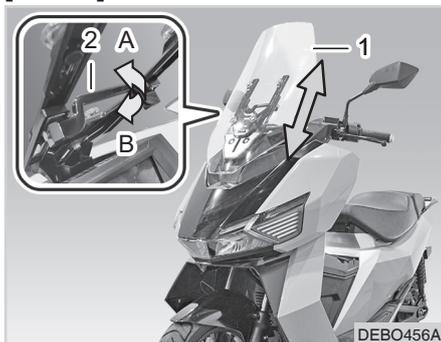


- Removal:  
Remove battery No. 0 first, followed by battery No. 1.
- Insertion:  
Insert battery No. 1 first, then battery No. 0.

### WARNING

- Be sure to remove any foreign material from the inside of the box and connectors before inserting the batteries.
- Check for damage to the connector pins before inserting the batteries.
- Insert the batteries correctly into the connector.
- If the battery compartment is contaminated, it may cause poor contact at the battery terminals, which may result in the engine not starting.

## WINDSHIELD [GS100]



(1) Windshield  
(A) Release

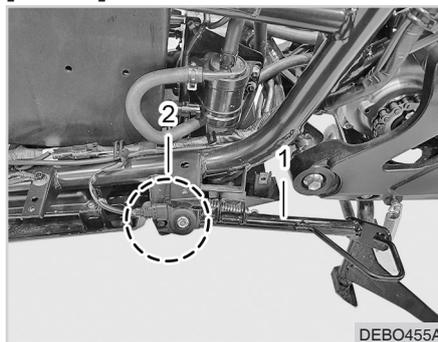
(2) Adjustment lever  
(B) Engage

The windshield serves to protect the driver from the driving in the wind. Adjust the height of the windshield to your preference by pushing back the adjustment lever, then return the lever to the Engage position to secure the chosen windshield height.

### CAUTION

- Be careful not to injure yourself when operating the adjustment lever.

## SIDE STAND [GS100]



(1) Side Stand

(2) Safety Switch

The GS100 is equipped with a side stand safety switch.

Even in Drive mode, lowering the side stand will make the vehicle non-drivable, while raising it will make it drivable.

For short-term parking, you can use the side stand to prop up your vehicle.

## SIDE STAND [GS100 LITE/PLUG-IN]

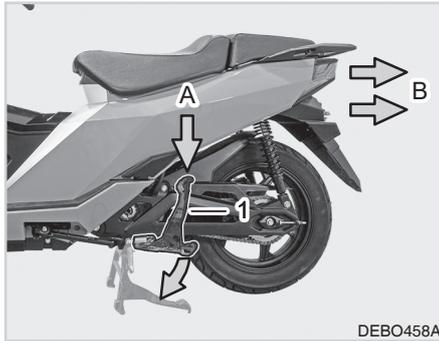


(1) Side stand

For short-term parking, you can use the side stand to prop up your vehicle.

### NOTE

- For long-term parking, it is recommended to use the main stand, as the weight of the vehicle may lead to deformation or breakage of the side stand if parked with the side stand only.

**MAIN STAND**

DEBO458A

(1) Main stand  
(A) Depress

(B) Pull

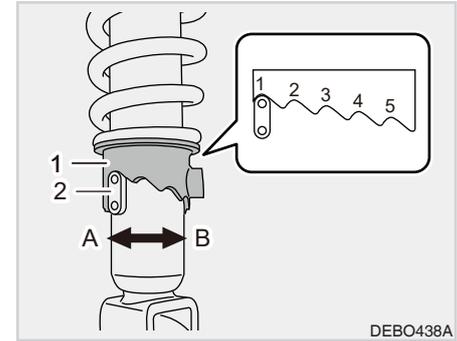
If you're parking or servicing for an extended period of time, using the main stand can provide added stability to your vehicle. To raise the main stand more easily, step on the protrusion on the left side of the stand and pull the vehicle backward.

**PASSENGER FOOT PEG**

GS1O454A

(1) Passenger foot peg

The passenger foot peg can be unfolded for use by a passenger.

**REAR SHOCK ABSORBER**

DEBO438A

(1) Rear shock absorber  
(A) Softer

(2) Adjuster  
(B) Stiffer

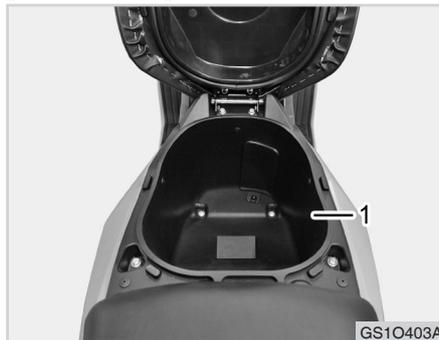
To improve ride comfort, you can adjust the strength of the rear shock absorber in five steps.

It is initially set to step 1 by default. Adjust it using the adjuster based on the passenger's weight or the road surface condition.

**⚠ WARNING**

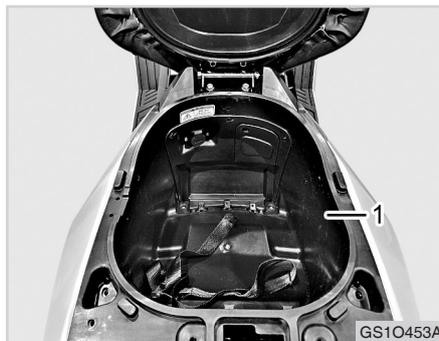
- *Ensure that the adjusters of the left-hand and right-hand shock absorbers are set to the same marks. Failure to do the same can cause the center of gravity to shift, potentially causing an accident.*

**UNDER-SEAT STORAGE BOX  
[GS100/LITE]**



(1) Under-seat storage box

**[GS100 LITE PLUG-IN]**



(1) Under-seat storage box

The under-seat storage box is accessible by opening the seat cover. Its load capacity is 10 kg.

For the GS100 LITE PLUG-IN model, the charger can be separated and charged using a separate charger.

**⚠ WARNING**

- *After closing the seat cover, make sure that seat is fully locked. Driving with the seat cover unlocked can cause the seat to open during a sudden stop, resulting in injury.*
- *Don't store valuables or fragile items in the box.*
- *The temperature in the under-seat storage box is high due to heat from the drive motor. Do not store items that are easily affected by heat, food, beverages, or anything flammable.*

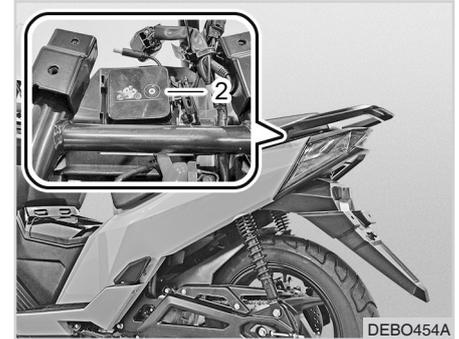
## CAMERA (DASH CAM) (OPTION)

**⚠ WARNING**

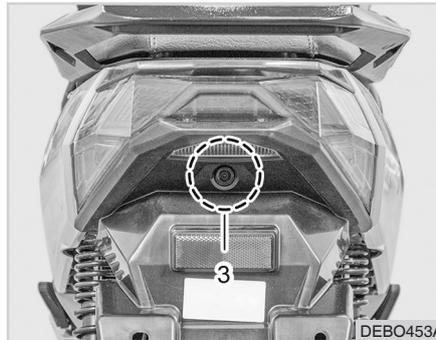
- *In rainy weather, there's a risk of water getting inside the storage box, so exercise caution if you store anything important in there.*
- *If the seat box is not closed properly, the interior lights may come on and drain the auxiliary battery. (GS100)*
- *If you have a charger inside the seat box, do not open it when it rains. The charger is vulnerable to moisture.*



(1) Front camera



(2) Dash cam controller



(3) Rear camera



(4) Dash cam controller memory card

The front and rear of the vehicle are equipped with dash cameras for recording accidents. When the main switch is turned ON, video recording initiates with a voice prompt, and when the main switch is turned OFF, video recording ceases with a beep sound.

※ This feature can be equipped depending on the order method. (all models: option)

## DASH CAM APPLICATION WIFI CAMERA (VSYSTO)



You can install the V SYS app on a smartphone with Android (version 6.0 or later) or iOS to get the following functions:

### • FUNCTIONS

1. Playing in the app
2. Real-time previewing / recording video / taking photos
3. General settings
4. Synchronizing the time between your smartphone and DVR

### • ENGAGE

1. Scan the QR code below to download the app.



iOS



Android

### NOTE

- This app requires Android 6.0 or later.
- This app is only compatible with DVRs made by V-SYS TECH.

2. Turn on the DVR.
3. To connect your smartphone to the MotoDV XXXX camera via Wi-Fi, access your smartphone Settings, navigate to Wi-Fi settings, and select 'MotoDV XXXX' from the available networks. Enter the password 1234567890.



### NOTE

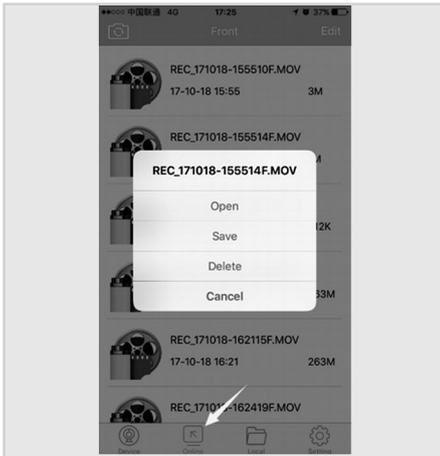
- Once your smartphone has successfully connected with the DVR Wi-Fi, open the V SYS Wi-Fi app and the DVR data and time will be automatically synchronized.

### • OPERATION

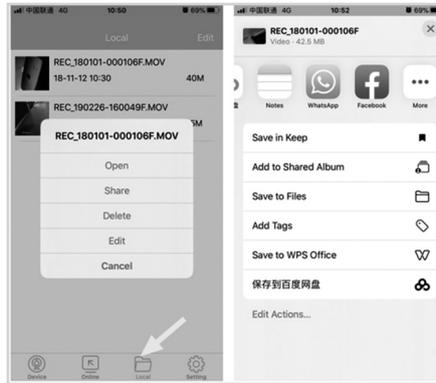


1. Tap  icon in the top right corner during preview mode to switch between front and rear camera previews.

2. Tap  icon in the top left corner in the file list mode to toggle between the front and rear camera video file lists.
3. Tap  icon to access the online file list and tap the desired file briefly to open, save or delete it.
4. Landscape mode allows for full-screen viewing.



5. Tap  icon to access the local file list and tap the desired file name briefly to open, share or delete it.



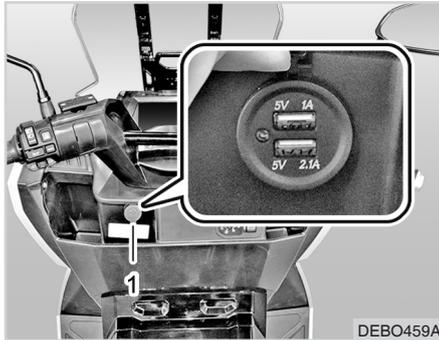
6. Tap  icon to enter the Setting menu.



## NOTE

- "GST" is for setting the G-sensor sensitivity.
- ① "0" means the lowest sensitivity.
- ② "4" means the highest sensitivity.
- "SSID" is for setting the DVR Wi-Fi name.
- If you forget your password and SSID, contact your seller to reset your DVR.

## USB CHARGING SOCKET



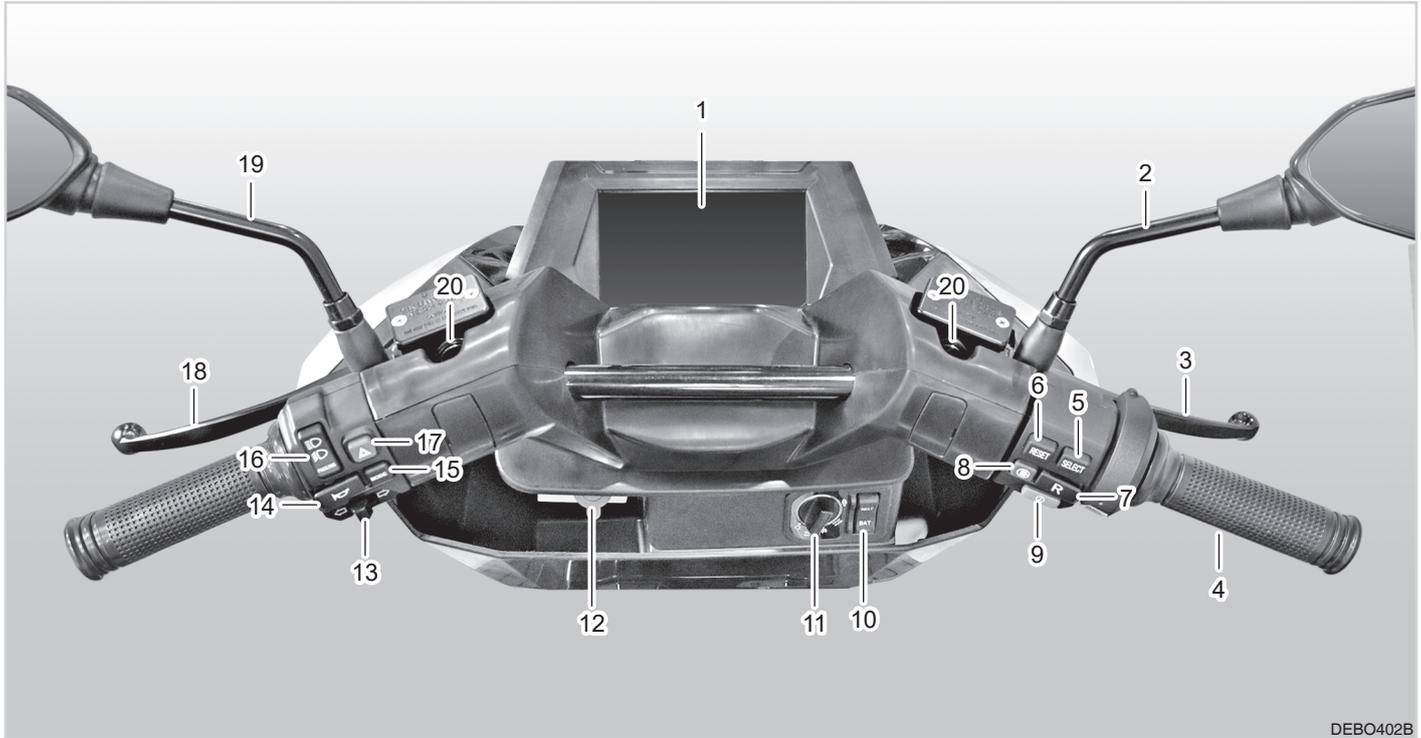
(1) USB charging socket

The USB charging socket can be used as a power supply for an external device. This function is available while the main switch is ON. You can connect a USB-type external device using a USB charging cable.

### CAUTION

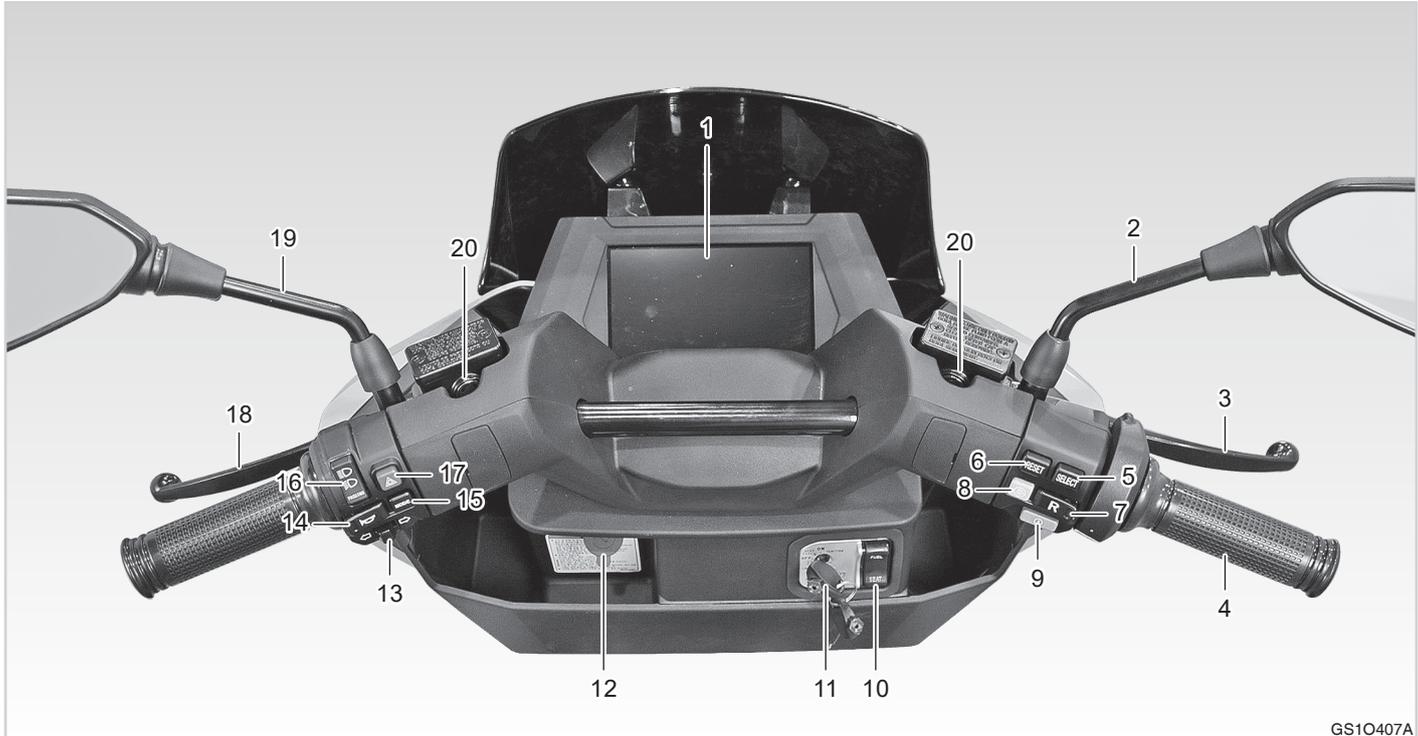
- Charging a product not rated for 5 volts can damage the vehicle.
- Before driving, check if the charging cable interferes with turning the handlebar left or right. Take immediate action, as interference can seriously affect safe operation and cause an accident.
- Do not charge while the vehicle is not started.
- Be cautious, as vibration during driving can lead to items falling off.
- Charge external devices that match the current capacity of each port of the USB charging socket.
- If you connect an external device with a large charging capacity or a damaged external device, the fuse may blow.

# CONTROLS NAMES AND OPERATIONS [GS100]



DEBO402B

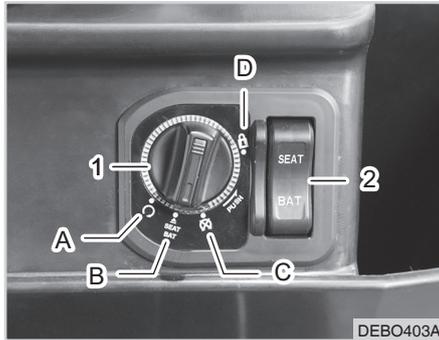
- |                           |  |                                   |   |  |
|---------------------------|--|-----------------------------------|---|--|
| (1) Instrument panel      | (6) RESET button                           | (11) Main switch                  | (16) Headlamp selector switch               | (19) Rear view mirror (LH)                 |
| (2) Rear view mirror (RH) | (7) Reverse (R) button                     | (12) USB charging socket          | (17) Hazard warning flasher switch          | (20) Brake fluid inspection window (LH/RH) |
| (3) Front wheel brake     | (8) Regenerative brake button              | (13) Turn signal lamp switch      | (18) CBS brake (front and rear interlocked) |  |
| (4) Throttle handle       | (9) START button                           | (14) Horn button                  |   |  |
| (5) SELECT button         | (10) Battery/under-seat storage box switch | (15) Driving mode selector button |   |  |

**[GS100 LITE/PLUG-IN]**

GS1O407A

- |                           |  |                                   |   |                                    |
|---------------------------|--|-----------------------------------|---|------------------------------------|
| (1) Instrument panel      | (6) RESET button                           | (11) Ignition switch              | (16) Headlamp selector switch               | (19) Rear view mirror (LH)         |
| (2) Rear view mirror (RH) | (7) Reverse (R) button                     | (12) USB charging socket          | (17) Hazard warning flasher switch          | (20) Brake fluid inspection window |
| (3) Front wheel brake     | (8) Regenerative brake button              | (13) Turn signal lamp switch      | (18) CBS brake (front and rear interlocked) |                                    |
| (4) Throttle grip         | (9) START button                           | (14) Horn button                  |   |                                    |
| (5) SELECT button         | (10) Battery/under-seat storage box switch | (15) Driving mode selector button |   |                                    |

## MAIN SWITCH [GS100]



- (1) Main Switch  
 (2) Battery/under-seat storage box switch  
 (A) KEY ON  
 (B) Storage box switch (SEAT/BAT)  
 (C) KEY OFF (D) Handlebar lock

### • KEY ON(A)

The position "A" indicates the "ON" position. With your smart key in hand, press the main switch and turn it to the "A" position when the lamp on the edge of the switch flashes. This activates all of the vehicle's systems and allows you to drive.

### • Under-seat storage box and battery box (B)

With the main switch in the "B" position, press the SEAT or BAT section of the battery/under-seat storage box switch to access the corresponding storage box.

### • KEY OFF (C)

The power is "OFF" and the vehicle is inoperable.

### • Handlebar Lock (D)

The "D" position is the handlebar lock position designed to prevent vehicle theft. When the main switch is placed in the handlebar lock position, and the handlebar is turned all the way to the left, it locks the handlebar, and the lamps will not operate.

## WARNING

- *Never operate the main switch while driving. Turning the main switch to the 'OFF' position can result in the electrical system shutting down, posing risks of vehicle stop and lamps shutdown. This may lead to collisions or rollover accidents, resulting in death or serious injury.*

## CAUTION

- **When leaving the vehicle, lock the handlebar to prevent theft, and ensure you never leave your key around the vehicle.**
- **Cycling power on and off repeatedly in a short period can lead to a failure.**
- **The main switch system functions only when the smart key is within a 1-meter range of the vehicle.**

### CAUTION

- **Ensure to lock the handlebar when parking and leaving your vehicle.**

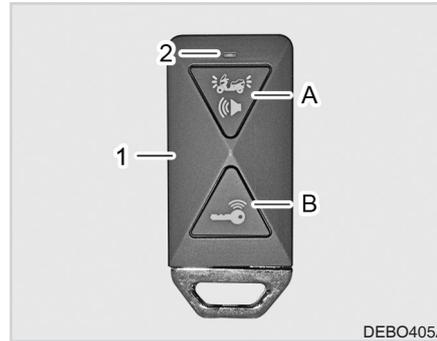
#### • Anti-theft features (at Key OFF)

- When the vehicle experiences an impact, an alarm will sound, and the turn signal lamps will flash.
- The motor locks, preventing the vehicle from being moved. (Unlocks when the key is turned to the ON position.)

#### • The anti-theft function is disabled under the following conditions:

- While monitoring the auxiliary battery voltage for 10 minutes after the key is turned OFF.
- While charging the auxiliary battery
- During an established Bluetooth connection.

## SMART KEY [GS100]



(1) Ignition key                      (2) LED lamp  
(A) Search button                    (B) Unlock button

Two smart keys are provided and they have four functions. The smart key has a detection range of approximately 3 meters from the vehicle.

#### • Search button (A)

The LED lamp illuminates in red as soon as this button is pressed.

When the vehicle recognizes your smart key, the turn signal lamps will turn on for two seconds, and search beep will sound twice.

#### • Unlock button (B)

When pressing this button, the turn signal lamps will illuminate and an unlock alarm will sound.

##### 1. Engaging smart key recognition

When the smart key is recognized after pressing the Unlock button, the main switch lamp will illuminate in blue. If there is no main switch operation for 10 seconds after smart key recognition, smart key recognition disengages automatically.

##### 2. Disengaging smart key recognition

While the main switch lamp illuminates in blue, pressing the Unlock button turns off the main switch lamp and disengages smart key recognition.

**⚠ CAUTION**

- Keep objects that interfere with radio waves away from the smart key to ensure proper functionality.
- Replace the smart key battery if the key becomes disabled.

## REPLACING THE SMART KEY BATTERY



(1) Physical key

(2) Smart key body

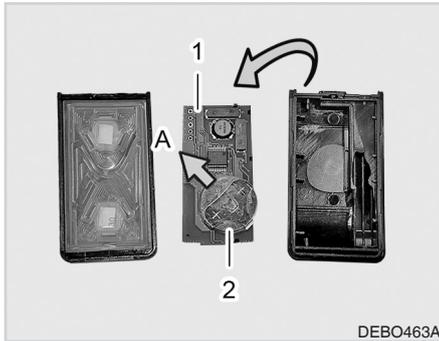


1. Remove the insert key (physical key) from the smart key body.

2. Fit a hard, flat tool, such as a coin, into the groove where you removed the insert key (physical key) and twist it to open the smart key body cover.

**⚠ CAUTION**

- When disassembling, apply moderate force to prevent damage to the smart key or risk of injury.



(1) Smart key board (2) Battery

- After removing the board from the body, remove the battery and replace it with a new battery.
- Assemble in the reverse order of disassembly.

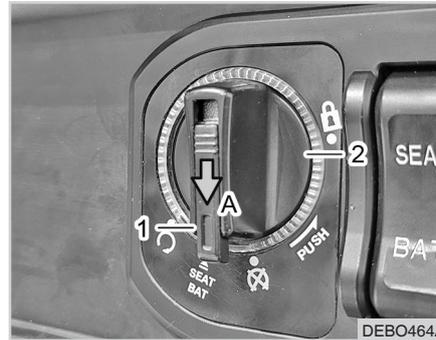
#### Battery specifications

CR 2023 / 3V

#### CAUTION

- Handle the smart key with care to avoid any damage.
- Be careful not to let water in.

## INSERT KEY (PHYSICAL KEY) [GS100]

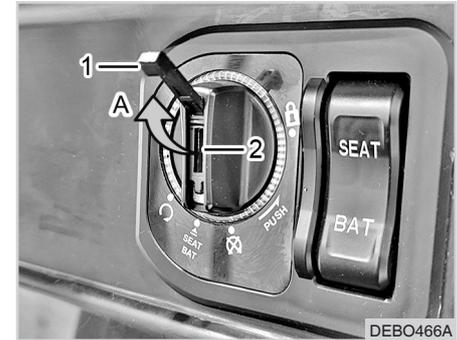


(1) Insert key (physical key) cover  
(2) Main switch  
(A) Down

You can use a physical key if the battery inside the smart key is dead or otherwise not working properly.

### How to use

- Slide down the insert key (physical key) cover.

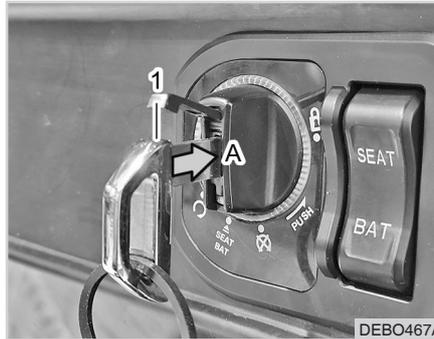


(1) Insert key (physical key) cover  
(2) Insert key (physical key) groove  
(A) Lift

- Lift the insert key (physical key) cover up from the down position. A key groove appears where you can plug in your physical key.

**⚠ WARNING**

- *Never operate the main switch while driving. Turning the main switch to the 'OFF' position can result in the electrical system shutting down, posing risks of vehicle stop and lamps shutdown. This may lead to collisions or rollover accidents, resulting in death or serious injury.*



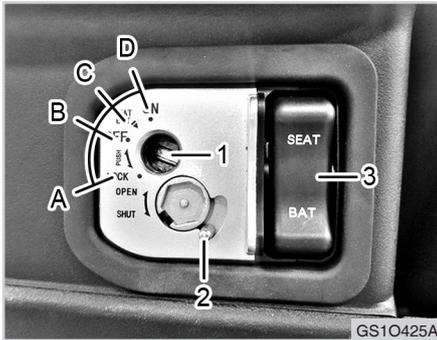
- (1) Insert key (physical key)  
(A) Inserting the key

3. Remove the insert key (physical key) from the smart key and insert it into the insert key (physical key) groove to operate the main switch.

**⚠ WARNING**

- *When using an insert key, be sure to remove the key from the vehicle after parking.*
- *Do not attach unnecessary metal objects to the smart key. You may scratch the key chain or the vehicle body. (Use a soft material for the key chain.)*

## IGNITION SWITCH [GS100 LITE/PLUG-IN]



(1) Ignition key switch insert

(2) Ignition key switch lock cover

(3) Under-seat storage box and battery box open switch

(A) Lock (B) KEY OFF

(C) Under-seat storage box and battery box

(D) KEY ON

### • Handle Lock (A)

The "A" position is the handlebar lock position designed to prevent vehicle theft. When the ignition switch is placed in the handlebar lock position, and the handlebar is turned all the way to the left, it locks the handlebar, and the lamps will not operate.

### • KEY OFF (B)

The power is "OFF" and the vehicle is inoperable.

### • Under-seat storage box and battery box (C)

With the ignition switch in the "C" position, press the SEAT or BAT section of the battery/under-seat storage box switch to access the corresponding storage box.

### • KEY ON (D)

The position "D" indicates the "ON" position. Turning to the "D" position activates all of the vehicle's systems and allows you to drive.

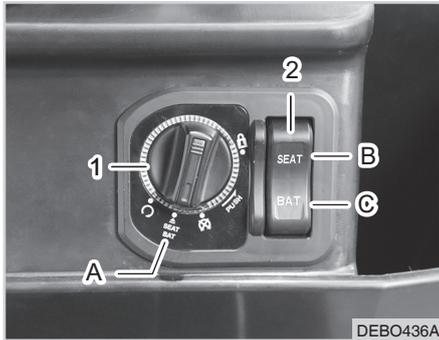
### WARNING

- *Never operate the ignition switch while driving. Turning the ignition switch to the 'OFF' position can result in the electrical system shutting down, posing risks of vehicle stop and lamps shutdown. This may lead to collisions or rollover accidents, resulting in death or serious injury.*

### CAUTION

- *Cycling power on and off repeatedly in a short period can lead to a failure.*
- *Ensure to lock the handlebar when parking and leaving your vehicle.*

## UNDER-SEAT STORAGE BOX AND BATTERY BOX [GS100]



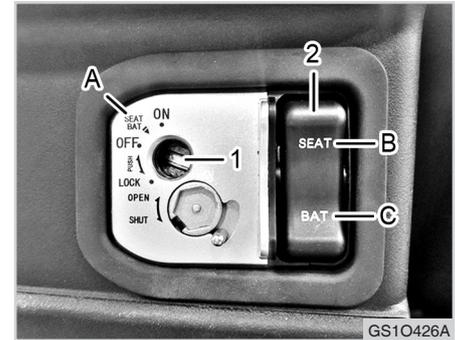
- (1) Main switch  
 (2) Under-seat storage box and battery box open switch  
 (A) Seat / Battery box switch  
 (B) Seat box open switch  
 (C) Battery box open switch

Turn the main switch to the SEAT/BAT position and press the SEAT or BAT position of the box opening switch to open the cover of the corresponding box.

### ⚠ CAUTION

- If the lamp does not work when the seat/battery box is opened in rainy or bad weather conditions, close the seat/battery box and then try again.

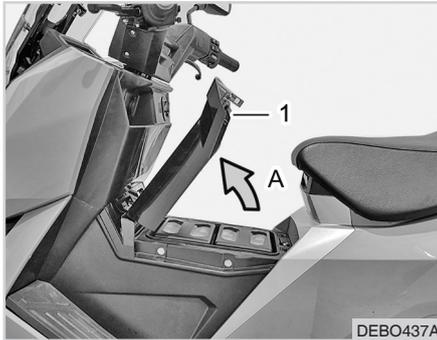
## [GS100 LITE/PLUG-IN]



- (1) Ignition key switch insert  
 (2) Under-seat storage box and battery box open switch  
 (A) Seat / Battery box switch  
 (B) Seat box open switch  
 (C) Battery box open switch

Turn the ignition switch to the SEAT/BAT position and press the SEAT or BAT position of the box opening switch to open the cover of the corresponding box.

## OPENING THE BATTERY (BAT) BOX



(1) Battery (BAT) box cover  
(A) Open

When the battery box is opened, the interior lamp lights up (GS110).

### CAUTION

- Do not open the battery box cover or under-seat storage box cover when washing the vehicle. The presence of water in the box may lead to battery or charger failure, posing the risk of electrical shock.
- If it is raining, change the batteries indoors or in a sheltered location to avoid exposure to rain.

## OPENING THE UNDER-SEAT STORAGE (SEAT) BOX



(1) Under-seat storage (SEAT) box cover  
(A) Open

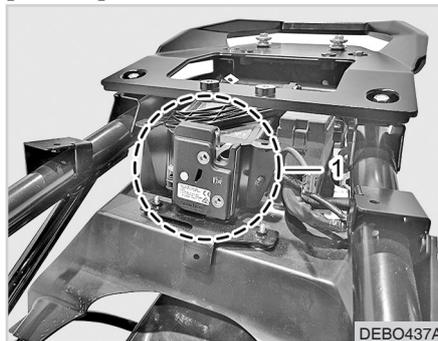
When the battery box is opened, the interior lamp lights up (GS110).

If the seat box is not closed properly, the lamps may stay on and drain the auxiliary battery.

### ⚠ CAUTION

- After closing the seat cover, make sure that seat is fully locked. Driving with the seat cover unlocked can cause the seat to open during a sudden stop, resulting in injury.
- Do not store valuables inside the under-seat storage box.

## LOCKING THE UNDER-SEAT STORAGE BOX AND BATTERY BOX [GS100]



(1) Lock sensor

The battery box and under-seat storage box are equipped with the lock sensors.

The battery box cover must be securely closed to ensure the safe storage of batteries within the box.

If the cover is not closed properly or remains open, the lock sensor will stay inactive. Consequently, the vehicle will not power up even when the main switch is in the ON position. Nevertheless, the power system will operate normally, regardless of the position of the under-seat storage box cover.

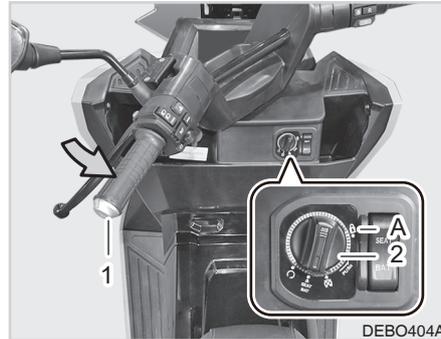
### ⚠ CAUTION

- After closing the seat cover, make sure that seat is fully locked. Driving with the seat cover unlocked can cause the seat to open during a sudden stop, resulting in injury.
- The temperature in the under-seat storage box is high due to heat from the drive motor. Do not store items that are easily affected by heat, food, beverages, or anything flammable.
- Do not store valuables and fragile items.
- During rainy weather or a car wash, there's a risk of water getting inside the storage box, so exercise caution if you store anything important in there.

### ⚠ CAUTION

- If the instrument panel does not power up when the main switch is in the "ON" position, open the seat cover and check if the seat closure sensor is functioning by pressing it.
- If the instrument panel does not power up when the main switch is in the "ON" position, open the battery box cover and check if the battery box closure sensor is functioning by pressing it.
- If the seat cover is not closed properly, the interior lights may turn on and the auxiliary battery may be discharged. (GS100)

## LOCKING THE HANDLEBAR [GS100]

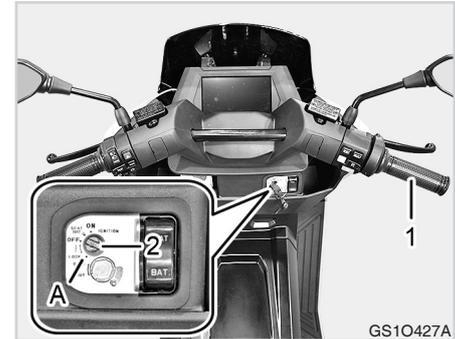


(1) Handlebar grip (2) Main switch  
(A) Handlebar lock

To prevent vehicle theft, turn the handlebar all the way to the left and turn the main switch to the handlebar lock position. To unlock the handlebar, press the main switch. Once the smart key is recognized, you can turn the handlebar.

If the remote key does not operate smoothly due to a dead battery or other reasons, you can use the metal key inside the remote key. (Refer to 'Main Switch' on page 4-16)

## [GS100 LITE/PLUG-IN]



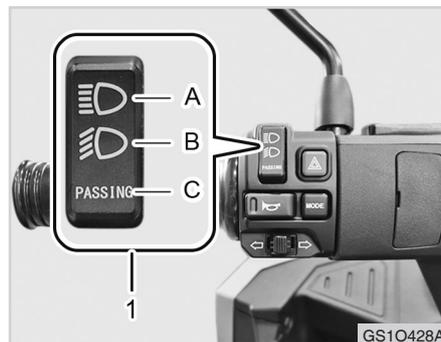
(1) Handlebar grip (2) Ignition key insert  
(A) Lock

Turn the ignition key switch to the LOCK position to prevent theft of the vehicle. To unlock the handlebar, insert the ignition key and turn it to the OFF position to release the lever.

### ⚠ CAUTION

- Gently move the handlebar from side to side to make sure it is securely locked in the "LOCK" position.
- Choose a safe place to park that doesn't interfere with traffic.
- In the key OFF state (handlebar locked), the motor is locked (anti-theft feature) to prevent any movement of the vehicle.
- If an external impact is received while the handle lock is set, an alarm will sound.

## HEADLAMP SWITCH



(1) Headlamp switch  
 (A) High beam      (B) Low beam  
 (C) PASSING

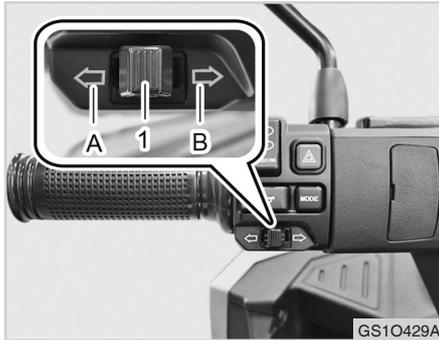
The headlamp switch can be operated while the ignition switch is in the ON position.

-  : use to illuminate short distances with high beams.
-  : use to illuminate long distances with high beams.
- PASSING : high beams are activated while pressing this portion. Once released, high beams deactivate and low beams are activated. This is used to signal the vehicle ahead.

### ⚠ WARNING

- *Driving with high beam headlamp ON disturbs the approaching vehicle's visibility for safe driving. Use the high beam headlamp only if necessary.*

## TURN SIGNAL LAMP SWITCH



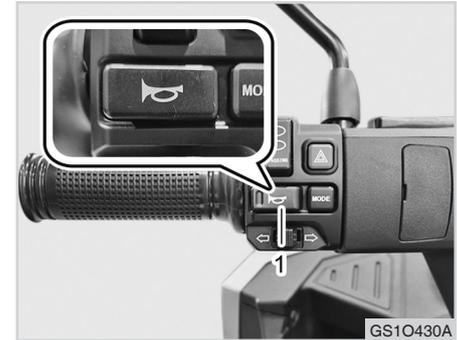
(1) Turn signal lamp switch  
 (A) Left turn      (B) Right turn

The turn signal lamp switch is used to signal other vehicles when making a turn. Press the switch to the left to activate the left turn signal lamp, and press the switch to the right to activate the right turn signal lamp. Gently press the center of the switch to return it to its original position.

### CAUTION

- The turn signal lamp switch is not a self-return type. Therefore, make sure to return the switch manually after turning the vehicle. It may interfere with the driving of other vehicles.

## HORN BUTTON



(1) Horn button

The horn button is available when the ignition switch is in the ON position. Press the button to activate the horn.

## HAZARD WARNING FLASHER BUTTON



(1) Hazard warning flasher button

This switch can be used to warn other vehicles when malfunction occurs in the vehicle while driving on a public road. When the hazard warning flasher is activated, the turn signal lamps will also flash at the same time.

## MODE BUTTON



(1) Mode button

Pressing the MODE button will sequentially cycle through the driving modes: NORMAL → SPORT → ECO → Normal and back to Normal, accompanied by the corresponding sound for each mode.

- ECO Mode: This mode increases the distance to empty with a higher electricity efficiency.

### CAUTION

- As this mode prioritizes electricity efficiency, the climbing ability is reduced. Therefore, you may need to switch to a different mode as needed.
- NORMAL Mode: This mode allows you to operate at reasonable electricity efficiency and power for everyday use.
- SPORT Mode: This mode allows you to maximize your vehicle's power.

### CAUTION

- High power can make it challenging to control the vehicle, posing a potential danger. Therefore, it is advisable to initially acquaint yourself with the vehicle's maneuverability in ECO and NORMAL modes.

### ⚠ CAUTION

- Driving at high speeds for extended periods in Sport mode may lead to a rapid decrease in the battery level. Additionally, during the summer, elevated battery and system temperatures may trigger Power Limit mode. Therefore, it is recommended to reduce your vehicle speed to alleviate battery and system temperatures.

## RESET BUTTON



(1) RESET button

Briefly press the RESET button to switch the trip meter from TRIP A to TRIP B to auxiliary battery voltage to TRIP A on the instrument panel.

In TRIP A or TRIP B mode, press the reset button for more than 2 seconds to reset the TRIP data.

## SELECT BUTTON



(1) SELECT button

Each time you press the SELECT button, the brightness of the instrument panel display dims by one level. The brightness can be adjusted across four levels: 100% ➔ 80% ➔ 60% ➔ 40%. GS100 LITE/GS 100 LITE PLUG-IN)

A short press of the reset button will change the trip meter on the instrument panel from TRIP A to TRIP B.

A long press (2 seconds) of the reset button will reset the TRIP distance to "0".

## REGENERATIVE BRAKE BUTTON



(1) Regenerative brake button

Regenerative braking is a feature that utilizes the drive motor as a generator to recapture energy lost during vehicle deceleration, converting it into electrical energy. This allows for braking power without using the traditional brakes, and the generated electricity is stored in the batteries. When you release the throttle grip and decelerate after acceleration, the battery is temporarily charged.

### ⚠ CAUTION

- When the battery SOC is above 95%, there is no motor resistance even with regenerative braking enabled to prevent overcharging.
- Regenerative braking is only active when the battery SOC is less than 95%.

## REVERSE BUTTON



(1) Reverse button

In "D" mode, pressing and holding the Reverse button illuminates the reverse driving indicator "R" on the instrument panel, triggers the hazard warning flasher and reverse driving alarm, and activates the reverse driving assist function. Releasing the button immediately stops reverse driving.

## READY BUTTON

### ⚠ CAUTION

- The reverse driving assist function aids the driver. Always be aware of your surroundings. Otherwise, it poses a risk of an accident.
- The reverse driving assist function is not enabled while driving.



(1) Ready button

After switching the ignition switch to 'ON,' pull the left-hand brake lever and hold the Ready button for over 2 seconds. The instrument panel will then display 'READY' accompanied by a 'Start on' sound. To start driving, turn the throttle grip.

Holding the brake lever and pressing the start button for 2 seconds while the vehicle is on will trigger the 'Start off' sound and switch the vehicle to a non-driving state, turning off the 'READY' light.

### ⚠ WARNING

- While the vehicle is running, avoid turning the throttle grip with the brake lever pulled. Premature deterioration of the transmission can result in poor performance, leading to sudden jerking upon releasing the brake lever and potential accidents.
- If the brake lever and throttle grip are both engaged simultaneously while the engine is running, the throttle will disengage after 60 seconds.

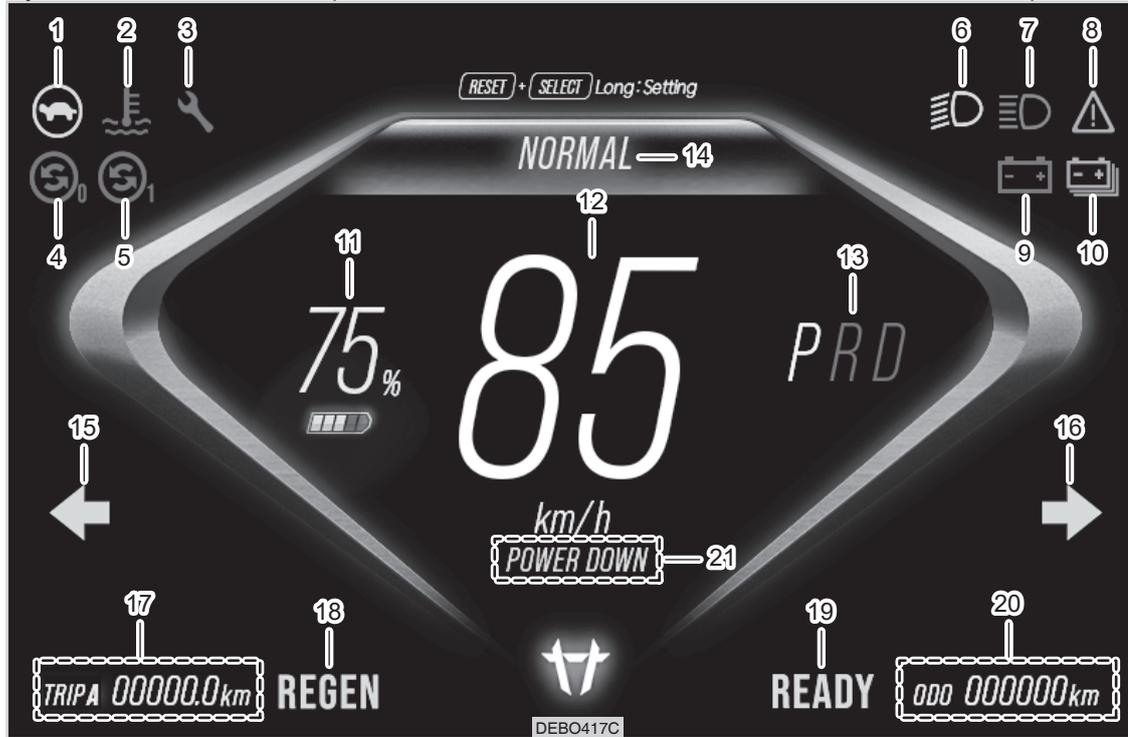
**CAUTION**

The vehicle cannot be started under the following conditions:

- Pressing the Ready button without holding the left or right brake lever.
- Operating the throttle grip during the startup process.
- A state of charge (SOC) difference of more than 40% between the two batteries.
- If the battery box is opened
- When the SEAT box is opened (GS100 LITE PLUG-IN)

## INSTRUMENT PANEL INSTRUMENT PANEL MONITOR [GS100]

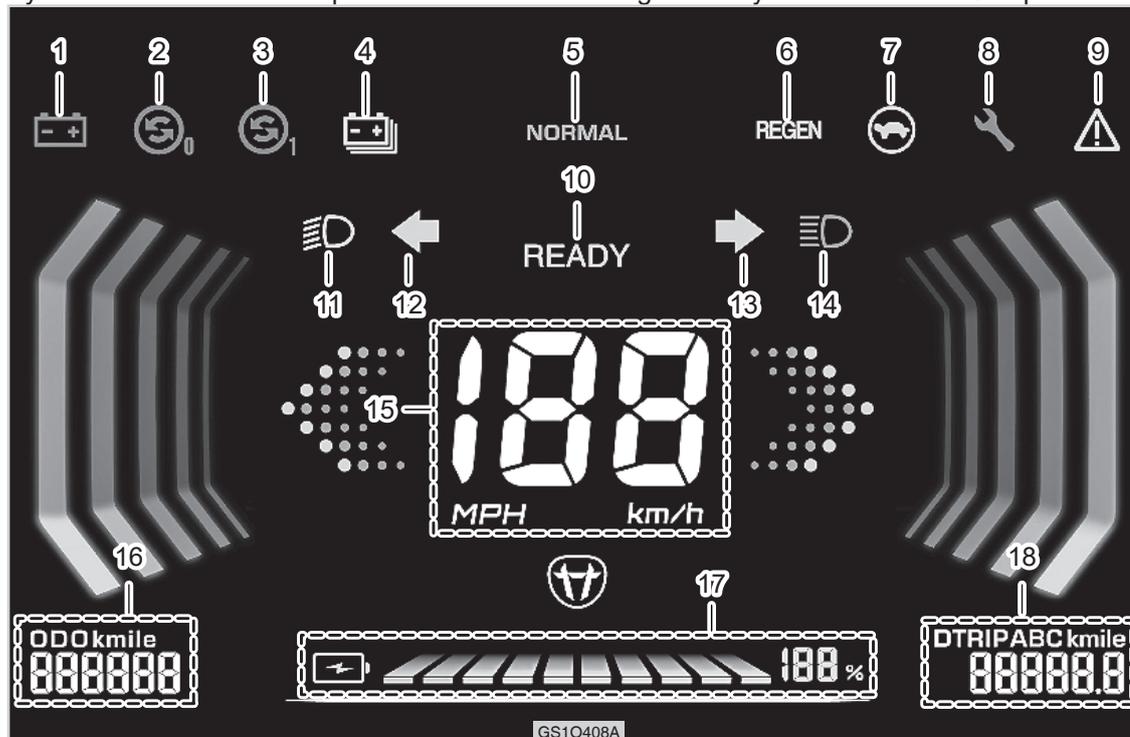
Symbols on the instrument panel come on when the main switch is turned to the “ON” position.



- (1) Reduced power warning lamp (low power)
- (2) Coolant warning lamp
- (3) Malfunction indicator
- (4) Battery replacement indicator 0
- (5) Battery replacement indicator 1
- (6) Low beam indicator
- (7) High beam indicator
- (8) Warning lamp
- (9) Auxiliary battery charge warning lamp
- (10) Drive battery warning lamp
- (11) Integrated battery SOC indicator
- (12) Digital speedometer
- (13) Park/Reverse/Drive indicators
- (14) Driving mode indicator
- (15) Hazard warning and turn signal indicator (LH)
- (16) Hazard warning and turn signal indicator (RH)
- (17) TRIP A/B meter
- (18) Regenerative braking indicator
- (19) READY indicator
- (20) Odometer
- (21) Message display

**[GS100 LITE/PLUG-IN]**

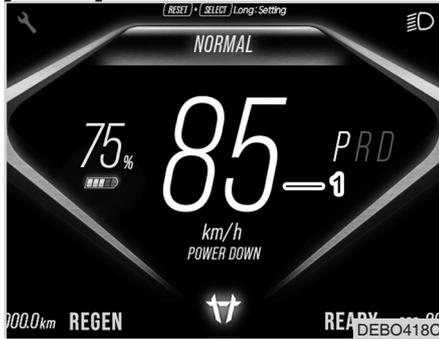
Symbols on the instrument panel come on when the ignition key is turned to the “ON” position.



- (1) Auxiliary battery charge warning lamp
- (2) Battery replacement indicator 0
- (3) Battery replacement indicator 1
- (4) Drive battery warning lamp
- (5) Driving mode indicator
- (6) Regenerative braking indicator
- (7) Reduced power warning lamp (low power)
- (8) Malfunction indicator
- (9) Warning lamp
- (10) READY indicator
- (11) Low beam indicator
- (12) Hazard warning and turn signal indicator (LH)
- (13) Hazard warning and turn signal indicator (RH)
- (14) High beam indicator
- (15) Digital speedometer
- (16) Odometer
- (17) Integrated battery SOC indicator
- (18) TRIP A/B meter  
DC auxiliary battery voltage DTC

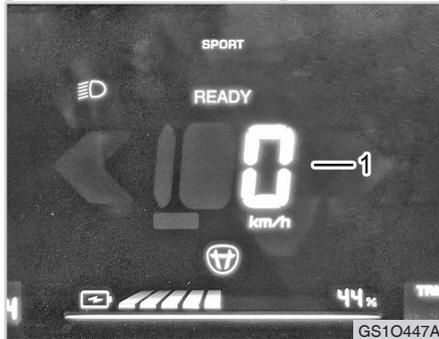
## DIGITAL SPEEDOMETER

[GS100]



(1) Speedometer

[GS100 LITE/PLUG-IN]



(1) Speedometer

The speedometer indicates the driving speed of the vehicle.

### ⊕ IMPORTANT

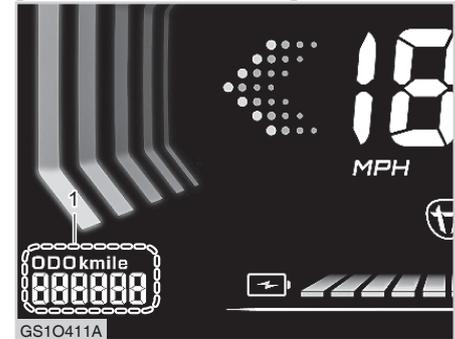
- Stay safe by adhering to the posted speed limit.

## ODOMETER



(1) Odometer

[GS100 LITE/PLUG-IN]



(1) Odometer

This indicates the cumulative total distance traveled by the vehicle. It indicates the distance with a maximum of six digits.

### NOTE

- The odometer continues to accumulate distance while the motor is running, even when the vehicle is parked with the main stand engaged.

### CAUTION

- **The malfunction indicator is displayed when electrical and battery failures occur.**
- **"CHECK SYSTEM" is displayed when the battery is not properly installed. When "CHECK SYSTEM" or  warning lamp is displayed, turn the main switch to OFF and press the top of the battery to fully insert it until you hear a "click". Then, turn the main switch to ON again.**

### CAUTION

- **When the warning message and warning light come on, turn the main switch OFF, then fully insert the battery cover until you hear a "click" sound, and then turn the main switch "ON" again.**

### TRIP METER [GS100]



(1) Trip meter

This indicates the traveling distance. A short press of the RESET button on the right-hand handle toggles through the following modes: TRIP A → TRIP B → TRIP A. Holding the button for 2 seconds in either TRIP A or TRIP B mode will reset the mileage value.

**[GS100 LITE/PLUG-IN]**

(1) Trip meter

This indicates the traveling distance.

A short press of the RESET button on the right-hand handle toggles through the following modes: TRIP A → TRIP B → Auxiliary battery voltage → TRIP A. Holding the button for 2 seconds in either TRIP A or TRIP B mode will reset the mileage value.

The mileage unit (km/h ↔ mile) is switched when the key ON switch is energized within 3 seconds of holding down the RESET button.

In the key OFF state, press the RESET button once to display TRIP A, twice to display TRIP B, and three times to display the auxiliary battery voltage CAN signal.

**INTEGRATED BATTERY SOC INDICATOR  
[GS100]**

(1) Battery SOC indicator

This indicates the battery SOC with percentage (%) and a charging icon.

As the SOC decreases, both the percentage and the number of blocks on the charging icon decrease.

Block 1 represents 20% charge. The battery warning light will light up when the charge falls below 20%.

The battery level displayed on the dashboard indicates the remaining level of the battery with the lower SOC of the two batteries.

## [GS100 LITE/PLUG-IN]



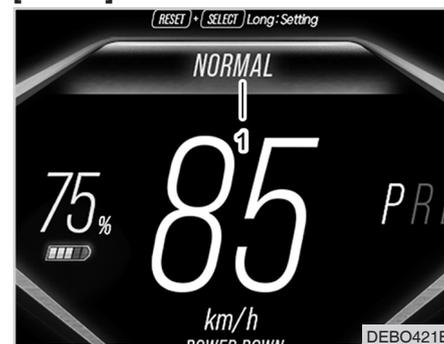
(1) Battery SOC indicator

This indicates the battery SOC with percentage (%) and a charging icon. The GS100 LITE/PLUG-IN model indicates 10% charge per bar.

The battery warning light will illuminate when the charge level is less than 20%.

 **CAUTION**

- If the difference in SOC between the two batteries is more than 50%, the vehicle will not start. Ensure to charge the two batteries so that they have the same charge.
- Do not use the vehicle when the charge is low. Overuse of the vehicle will reduce battery life.
- Discharging the battery completely can cause serious problems with battery performance. If the battery SOC 20% warning lamp comes on, charge the battery immediately before use.
- If your electric scooter battery is left unused for an extended period, periodically check the battery SOC to ensure it does not drop to 0%. (Store the battery after charging it to 90%.)

**DRIVING MODE INDICATOR**  
[GS100]

(1) Driving mode

## [GS100 LITE/PLUG-IN]



(1) Driving mode

The driving mode indicator displays the vehicle's currently set driving mode.

There are three modes: ECO, NORMAL, and SPORT. The order of selection changes from NORMAL → SPORT → ECO, then back → NORMAL.

When turning the KEY ON before driving, the driving mode that was last set during the previous drive is displayed.

### READY INDICATOR [GS100]



(1) READY indicator

### [GS100 LITE/PLUG-IN]



(1) READY indicator

The READY indicator indicates that the vehicle is ready to drive.

To activate it, raise the side stand, turn the main switch to "ON," pull the left-hand brake lever, and press the READY switch on the right handle for 2 seconds. You can drive when the READY indicator on the instrument panel illuminates.

### CAUTION

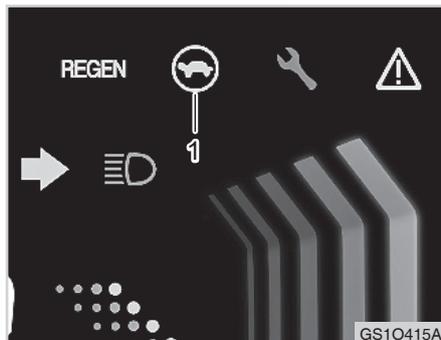
- Do not turn the throttle grip at the same time as operating the READY switch.
- When the READY switch and throttle grip are operated simultaneously, the READY indicator will not illuminate.
- If the side stand is down, the READY indicator does not illuminate, and driving is also impossible. (GS100)
- If the READY indicator does not illuminate, and you are unable to drive even when the side stand is raised, contact your local service center. (GS100)

## REDUCED POWER WARNING LAMP (LOW POWER) [GS100]



(1) Reduced power warning lamp

## [GS100 LITE/PLUG-IN]



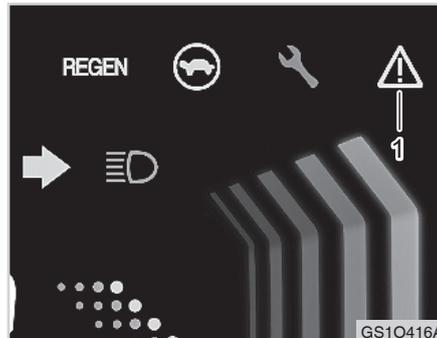
(1) Reduced power warning lamp

The Reduced power warning lamp illuminates when the following conditions occur:

1. Battery 0 or 1 (SOC 17% or less)
2. Coolant warning activated (GS100)
3. Excessively hot or cold drive battery
4. Warning lamp activated

### CAUTION

- When the Reduced power warning lamp appears, vehicle power is limited to protect the system.
- The warning lamp disappears when the condition for a power limit to occur is cleared. If the Reduced Power warning lamp persists under conditions that should not occur, contact your service center immediately.

**WARNING LAMP****[GS100]***(1) Warning lamp***[GS100 LITE/PLUG-IN]***(1) Warning lamp*

The warning lamp illuminates when the following conditions occur:

1. Pressing the READY button without holding the brake lever with the main switch in the "ON" position.
2. When the starting conditions are not met with the main switch "ON," these conditions include:
  - 1) Operating the throttle grip.
  - 2) Moving the vehicle.
  - 3) Operating the R (Reverse) button
  - 4) Operating the side stand.
  - 5) 40% or more SOC difference between the two batteries
3. Error code occurred

**MALFUNCTION INDICATOR****[GS100]***(1) Malfunction indicator*

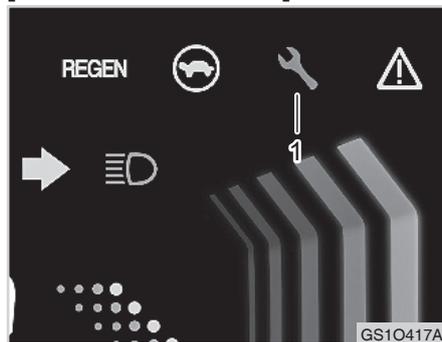
If the vehicle experiences a fault, the malfunction indicator illuminates. Here's how to check for trouble:

1. Lower the side stand
2. Parking your vehicle using the main stand
3. Check speed 0 km/h
4. Push RESET and SELECT button at the same time and hold them for 2 seconds on the RH handle
5. Dash board screen color changes
  - Check the trouble code

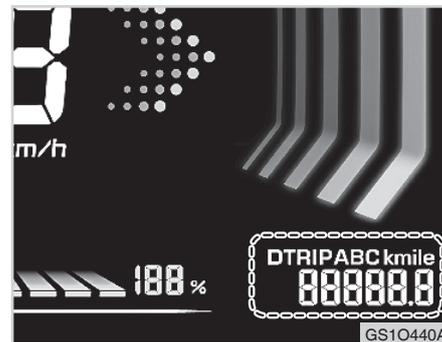
 **CAUTION**

- If the malfunction indicator appears, contact your service center immediately.
- When the fault repair is complete, both the malfunction indicator and DTC disappear.

[GS100 LITE/PLUG-IN]

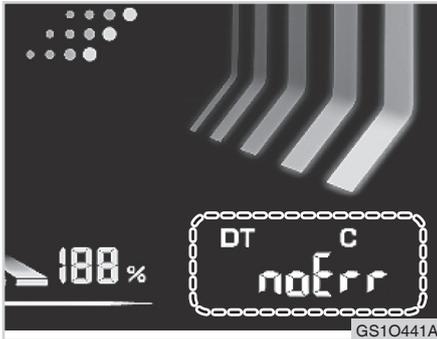


(1) Malfunction indicator



If the vehicle experiences a fault, the malfunction indicator illuminates.

To view the fault codes, press and hold the RESET button and the SELECT button on the handlebar for 2 seconds while the vehicle speed is at "0" km/h. The DTCs will display in the lower right corner of the instrument panel, showing each DTC at 2-second intervals.  
Example) U1101 → П1101 → B1101



## COOLANT WARNING LAMP [GS100]



(1) Coolant warning lamp

If no DTC exists, "noErr" is displayed. To exit the mode, use the same method as for entering it.

### ⚠ CAUTION

- If the malfunction indicator appears, contact your service center immediately.
- When the fault repair is complete, both the malfunction indicator and DTC disappear.

The warning lamp illuminates in red for an overheated powertrain and coolant, and in blue for normal temperature of the powertrain and coolant. In the case of overheating (lamp in red), the Reduced power warning lamp illuminates simultaneously, and vehicle power is limited.

### ⚠ CAUTION

- If the coolant warning lamp illuminates in red to indicate overheating, visit your local service center for repairs.

### BATTERY REPLACEMENT INDICATOR [GS100]



- (1) Battery replacement indicator 0
- (2) Battery replacement indicator 1

This lights up when the battery SOH (battery health) is below 65% and the battery needs to be replaced.

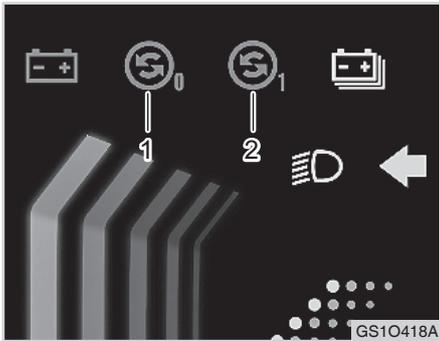
	<b>CAUTION</b>
<ul style="list-style-type: none"> <li>• Driving with these warning lamps illuminated will disqualify you from warranty coverage for parts related to these warnings.</li> </ul>	

### TURN SIGNAL INDICATORS [GS100]



- (1) Left turn signal indicator
- (2) Right turn signal indicator

### [GS100 LITE/PLUG-IN]



- (1) Battery No. 1 replacement indicator
- (2) Battery No. 2 replacement indicator

### [GS100 LITE/PLUG-IN]



- (1) Left turn signal indicator
- (2) Right turn signal indicator

Operating the turn signal switch to the left or right will activate the front and rear turn signal lamps, causing the turn signal indicators on the instrument panel to flash.

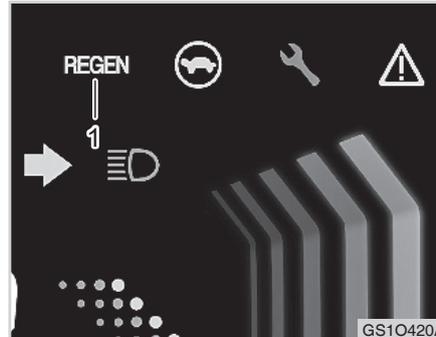
When the hazard light indicator lights up, the left and right turn signals blink simultaneously.

## REGENERATIVE BRAKING (REGEN) INDICATOR [GS100]



(1) Regenerative braking indicator

## [GS100 LITE/PLUG-IN]



(1) Regenerative braking indicator

Pressing the regenerative braking button on the right handle activates the regenerative braking function and illuminates the regenerative braking (REGEN) indicator on the instrument panel along with an audible chime. The battery is charged by the rotational force of the rear wheel when you release the throttle grip to decelerate or when going downhill.

Pressing the "REGEN" button again will disable the function.

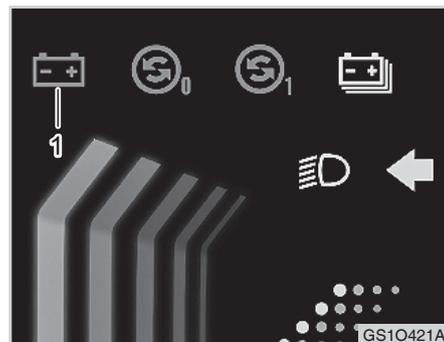
## AUXILIARY BATTERY WARNING LAMP

[GS100]



(1) Auxiliary battery warning lamp

[GS100 LITE/PLUG-IN]



(1) Auxiliary battery warning lamp

Lights up when the auxiliary battery needs to be charged. The auxiliary battery provides power to electronic devices when the drive battery is not present.

### ⚠ WARNING

- *When the auxiliary battery charge warning lamp illuminates, the instrument panel may not display properly. Verify the auxiliary battery connections and check for blown fuses.*

### ⚠ CAUTION

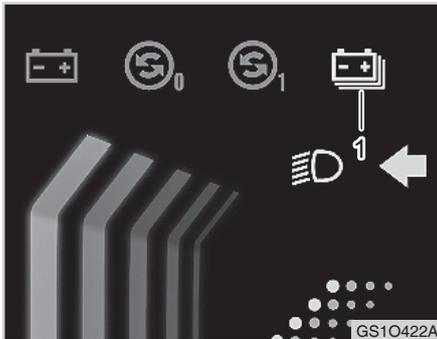
- **Leaving the vehicle without the drive battery for about 10 days may lead to auxiliary battery discharge. Always install the drive battery to prevent this.**
- **The vehicle can charge the auxiliary battery through the drive battery, reducing its charge level during extended storage.**
- **When storing your vehicle for an extended period, consider keeping the auxiliary battery separate from the vehicle.**
- **The auxiliary battery discharge can vary depending on the ambient temperature and environment.**
- **In winter, auxiliary batteries may discharge more quickly. (12V . 7.5AH)**

## DRIVE BATTERY WARNING LAMP [GS100]



(1) Drive battery warning lamp

## [GS100 LITE/PLUG-IN]



(1) Drive battery warning lamp

This warning lamp illuminates when the State of Charge (SOC) of the drive battery drops below approximately 20%. In this case, charge the battery immediately.

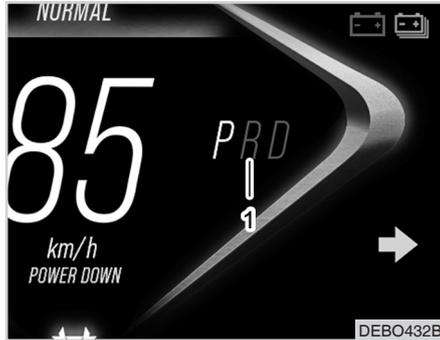
### ⊕ IMPORTANT

- When the battery SOC is below approximately 20%, the current driving mode will switch to the Reduced Power mode (driving below 60 km/h).
- If the battery SOC is less than 10%, the vehicle speed will be limited to 45 km/h.
- If the battery overheats, the coolant warning light will light red (normally blue) and the power limit warning light will light simultaneously to limit the power. (GS100)

### ⊕ IMPORTANT

- When the battery overheats, the warning lamp and the reduced power warning lamp illuminate simultaneously, limiting the vehicle's power.
- If the drive battery charge warning lamp comes on, charge the battery immediately. When the charge reaches 0%, the battery can be damaged.
- If the drive battery temperature is below zero, the power may be limited, and the vehicle may not be drivable. The drive battery warning lamp illuminates, and the vehicle may not be drivable when the battery SOC is below 10%.
- In subzero temperatures, it is recommended to charge the battery before the drive battery warning lamp illuminates.

### DRIVING MODE INDICATOR [GS100]



(1) Driving mode indicator

The currently selected driving mode indicator illuminates.

P: Side stand activation reminder

R: Reverse

D: Drive

**⚠ CAUTION**

- The P indicator indicates activation of the side stand. Be aware of your surroundings.

### CUSTOMIZATION MODE [GS100]



(1) Speed unit                      (2) Language  
(3) Diagnostic trouble code

Press the RESET and SELECT buttons with the side stand lowered and the speed at 0 km/h to switch to the Customization mode.

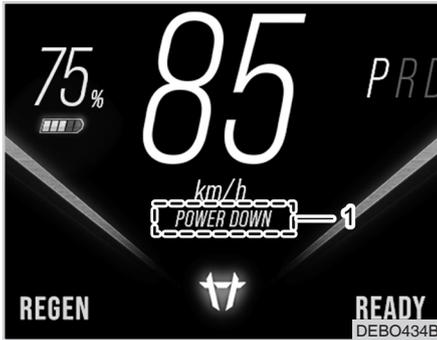
Switching to customization mode enables you to change the speed unit and language settings, and check for diagnostic trouble codes.

1. Speed unit: Km/h → MPH
2. Language setting: Korean → English

3. Diagnostic trouble code: checking for diagnostic trouble codes when a failure occurs

Pressing the SELECT button will move down to the next item, and pressing the RESET button will select that item.

## DASHBOARD MESSAGE [GS100]



(1) Message display

Messages flash below the speedometer on the lower section of the instrument panel under the following conditions:

1. Prioritization among warning message groups
  - If two or more warnings occur simultaneously: The message for the group with a higher priority is displayed.

- If a warning for the group with a higher priority occurs while a warning message is displayed: The warning message for the group with a higher priority is displayed.
- If a warning for the group with a lower priority occurs while a warning message is displayed: The current warning message is maintained.

### 2. Switching between warning messages in the same group

- If another warning with a lower priority occurs while a warning message is displayed, current warning message is maintained.
- If another warning with a higher priority occurs while a warning message is displayed, the warning message with a higher priority is displayed.

Priority	Item	Message color
Group 1	SERVICE CENTER	Red
Group 2	CHANGE BATTERY	Red
Group 3	CHECK SYSTEM	Amber
Group 4	SIDE STAND	Amber
Group 5	POWER DOWN	Green

## OTHER SYMBOLS INDICATED ON THE DIGITAL SPEEDOMETER DISPLAY

[GS100 LITE/PLUG-IN]



When the battery cover or seat is opened, the digital speedometer display shows "OP."

- GS100 LITE: When the battery cover is opened
- GS100 LITE PLUG-IN: When the battery cover or seat is opened

[GS100 LITE/PLUG-IN]



When reversing, the digital speedometer display shows "RE" and the turn signal lamps (hazard warning lamps) are activated simultaneously.

[GS100 LITE PLUG-IN]



When charging, the speedometer display will show "CH".

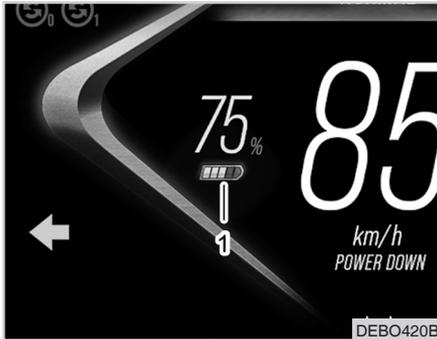
### CAUTION

- If the battery cover or seat is left open for a long period of time, the auxiliary battery may discharge, so always keep the battery cover and seat closed, especially during long-term storage.

## CHARGING AND CARE THE BATTERY

### CHECKING THE BATTERY LEVEL

[GS100]



(1) Battery SOC indicator

[GS100 LITE/PLUG-IN]



(1) 배터리 잔량 표시등

1. Verify that the battery State of Charge (SOC) is sufficient using the display on the instrument panel.
2. The battery SOC is displayed on the instrument panel when the ignition switch is turned to the “ON” position.
3. Charge the battery if the SOC is below 20%.

#### ⚠ WARNING

- **A new battery needs to be initially charged to 100%.**
- **For long-term storage, periodically recharge it after a full charge.**

### CAUTIONS WHEN HANDLING BATTERIES

#### ⚠ WARNING

- **Unauthorized use of the battery in any manner is strictly prohibited.**
- **The battery is equipped with safety devices; avoid disassembling, repairing, or altering its structure.**
- **Avoid leaving the battery unattended in areas with high ambient temperatures or near open flames.**
- **Prevent overheating by refraining from separately wrapping the battery or charger. Do not expose the battery or charger to direct sunlight.**
- **Avoid storing the charger or battery in humid, snowy, or rainy environments.**
- **Handle batteries with care to prevent damage from shocks.**
- **Do not stack batteries.**

 **DANGER: Electric shock risk**

- Avoid short-circuiting the battery terminals.
- Refrain from directly discharging the battery.

 **CAUTION**

- The battery can generate heat during use. Exercise caution during replacement.
- If the operating duration of your battery is shorter than usual, have your battery checked.
- While charging, using, and storing the battery, ensure distance from materials prone to static electricity.
- Keep the battery connectors clean and free from attachments.
- Avoid disassembling or altering the form and structure of the battery.
- In case of any abnormalities of the battery such as damage or deformation, cease vehicle use, turn off the motor and power, and contact a service center immediately.

 **CAUTION**

- If the charger is not functioning, check whether the battery and charger are correctly connected, verify if the charger's alternating current voltage meets charging conditions, and inspect for overheating or overcurrent of the charger. If issues persist, disconnect the power and reconnect after a few seconds.
- Store the batteries indoors; if outdoor storage is necessary, remove the batteries and store them indoors.
- For prolonged storage without removal, maintain the batteries in a fully charged state.
- In case of dirt on the battery, clean it with a dry cloth.
- Extended storage with a low charge may lead to over-discharge, and in severe cases, the battery may be unable to recover.

## CHARGING EACH BATTERY

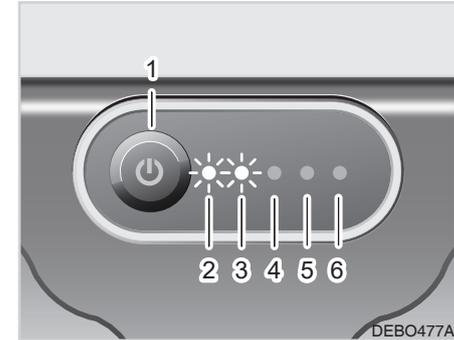
### CAUTION

- Please ensure to read the user guide before using.
- Use only compatible batteries. Do not connect with non-rechargeable or incompatible batteries, such as lead-acid batteries.
- Do not disassemble or modify its structure without approval.
- Avoid placing heavy objects on the top of the body.
- Refrain from holding its handle and shaking it.
- If water enters the device, do not use it and prioritize safety.
- Please use the specified power source (rated AC 220 - 240 V~, 50/60 Hz) and ensure to connect the charging cord to a grounded outlet.
- Before using the product, place the product on a flat surface.

### CAUTION

- Never disconnect the connector while charging.
- Do not use a conductor, such as a metal stick, to touch the inside of the product, as it can cause electric shock and malfunction.
- Avoid moving and touching the product while it is in operation.
- During storage and operation, do not allow the product to be touched or used by persons who lack physical, sensory, or formal capacity, or who lack the experience and knowledge to use the product safely without supervision or instruction.
- Keep it out of the reach of children and take care to never touch it while in use.
- We are not responsible for any damage caused by careless use.
- In the event of a product failure, please contact our service center.

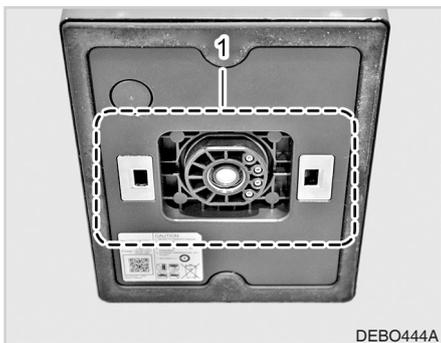
## CHECKING THE DRIVE BATTERY SOC



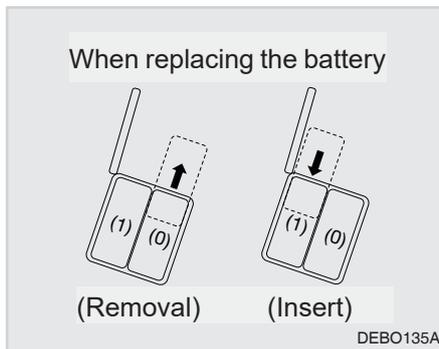
- (1) Button (2) LED 1 (0 ~ 20%)  
 (3) LED 2 (21 ~ 40%) (4) LED 3 (41 ~ 60%)  
 (5) LED 4 (61 ~ 80%) (6) LED 5 (81 ~ 100%)

When pressing the button on the drive battery, the LEDs will illuminate to indicate the remaining charge level, with each LED representing 20% of the State of Charge (SOC).

## HIGH VOLTAGE BATTERY CONNECTION



(1) Drive battery connections



### **⚠ DANGER: Electric shock risk**

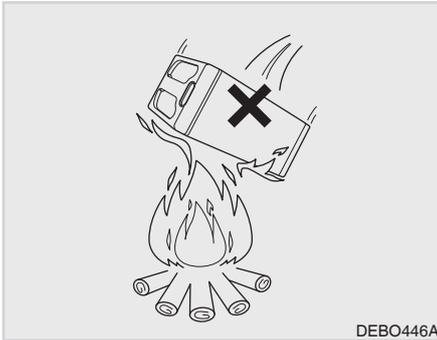
- **Avoid connecting wires to the battery connections. Doing so can lead to battery failure and pose a risk of electric shock.**

- Removal: Remove battery No. 0 first, followed by battery No. 1.
- Insertion: Insert battery No. 1 first, then battery No. 0.

Avoid dropping the battery into water. If dropped carelessly, it may not function properly.

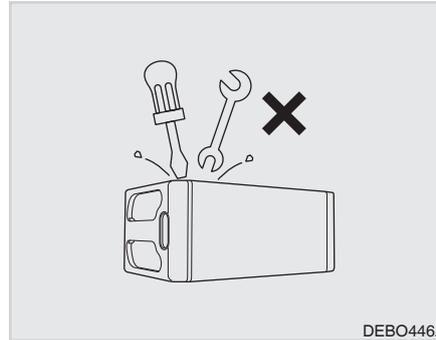
### **⚠ WARNING**

- **Maintain the cleanliness of the interior of the battery box at all times, and ensure that neither debris nor water enters the connectors within the battery box. Otherwise, it can cause serious malfunction.**



Do not place waste batteries near open flames.

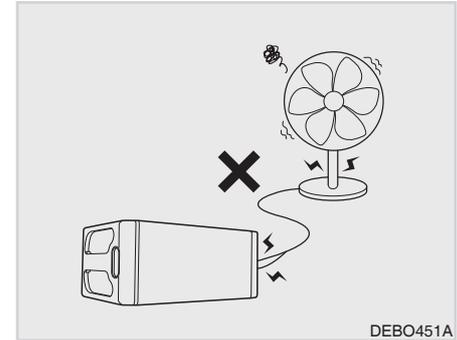
Waste batteries cannot be recycled. Return them to the nearest service center.



Do not attempt to disassemble the battery. Otherwise, it can cause malfunction.

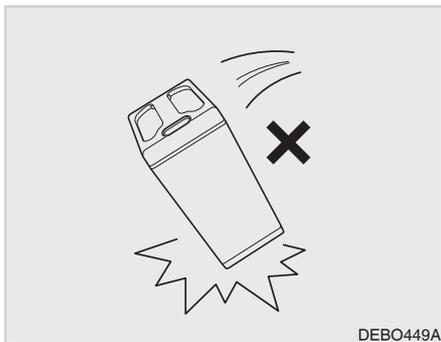
**⚠ DANGER: Electric shock risk**

- *Disassembling the battery will not be covered under warranty.*



**⚠ DANGER: Electric shock risk**

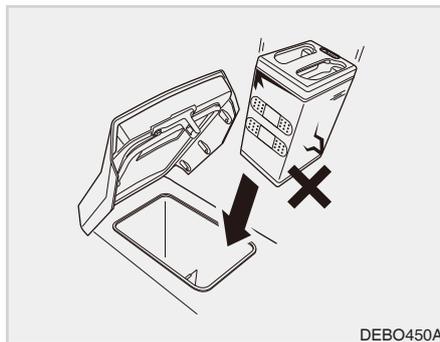
- *Avoid repurposing the battery for other electrical appliances or uses. Utilizing it for other devices may result in damage to the battery or other electrical equipment.*



Avoid dropping the battery or exposing it to strong impacts. Physical shock has the potential to break or disconnect the battery.

### NOTE

- For damaged batteries, please visit your local service center.
- Replace broken batteries with new ones.



Do not use damaged batteries. Using them can cause serious malfunction.

### WARNING

- ***Using a damaged battery can lead to severe consequences, including death or serious injury, as a faulty battery may cause the electrical system to shut down, trigger a fire, or contribute to a rollover or crash due to inoperable lights.***

## AUXILIARY BATTERY



(1) Auxiliary battery

1. To access the auxiliary battery, remove the passenger seat panel.
2. The auxiliary battery supplies temporary power to the system during the replacement of the main battery or when the user takes it home for charging.
3. With a fully charged auxiliary battery at 100%, you can expect approximately 3 days of standby usage without the main battery. (It may vary depending on usage conditions.)

4. To charge the auxiliary battery, insert the main batteries into the vehicle and let it charge for 30 minutes after starting.
5. The auxiliary battery is automatically charged during startup. (Example: The auxiliary battery reaches a charge level of up to 40% within 30 minutes and achieves a full charge of 100% within 90 minutes.)

**CAUTION**

- **After fully charging the main batteries, promptly place them in the vehicle.**
- **Due to the auxiliary battery's limited capacity, it depletes quickly without the main battery.**
- **Avoid using it in a discharged state to prevent battery failure.**
- **For extended vehicle storage (over one month), if the charge of both the main and auxiliary batteries is 50% or less, charge them to 90% for safety. Remove the main batteries and store the auxiliary battery with its connection terminals detached.**
- **Regularly monitor the battery charge, and if it falls below 20%, charge it immediately.**

## ACTIONS IN AN EMERGENCY DURING BATTERY USE

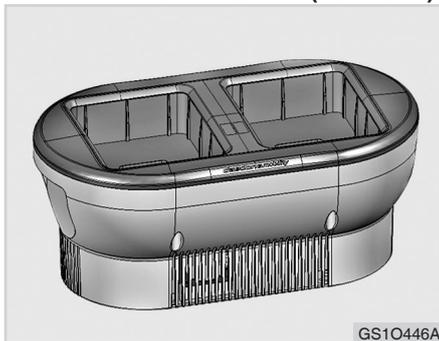
Symptom	Remedy
1. The battery is emitting smoke, steam, or a hissing sound.	<ul style="list-style-type: none"><li>• Turn off your vehicle and ensure the safety of those nearby.</li><li>• Leave hazardous areas immediately.</li></ul>
2. The battery is overcharged or discharged.	<ul style="list-style-type: none"><li>• Turn off your vehicle and ensure the safety of those nearby.</li><li>• Disconnect the battery from the charger or vehicle.</li><li>• Evacuate from the hazard area.</li></ul>
3. The battery is wet or submerged.	<ul style="list-style-type: none"><li>• Turn off your vehicle and ensure the safety of those nearby.</li><li>• Disconnect the battery from the charger or vehicle.</li><li>• Evacuate from the hazard area.</li></ul>
4. The battery has been dropped from a height or has a defective housing.	<ul style="list-style-type: none"><li>• Turn off your vehicle and ensure the safety of those nearby.</li><li>• Disconnect the battery from the charger or vehicle.</li><li>• Evacuate from the hazard area.</li></ul>

## ACTIONS IN AN EMERGENCY

Symptom	Remedy
1. If inhaled	<ul style="list-style-type: none"><li>• Promptly relocate the person to fresh air and seek emergency medical attention as directed by a healthcare professional.</li></ul>
2. If it gets in your eyes	<ul style="list-style-type: none"><li>• Flush your eyes with running water for at least 15 minutes and seek emergency medical attention as directed by a healthcare professional.</li></ul>
3. If swallowed a chemical	<ul style="list-style-type: none"><li>• Seek emergency medical attention as directed by a healthcare professional.</li></ul>
4. If electrocuted	<ul style="list-style-type: none"><li>• If you experience a burn, refrain from applying ointments or bandages. Instead, seek emergency medical attention by calling 911. If the person is unconscious, loosen any clothing that may be obstructing breathing, move the person to a safe place where you can administer first aid, and call 911 for emergency medical care.</li></ul>

※ First aid is a fundamental measure aimed at preventing the worsening of injuries. After first aid, always follow the instructions of a medical professional to prevent serious injuries such as shock and hypothermia.

## STANDARD CHARGER PARALLEL CHARGER (OPTION)



GS10446A

### ⚠ CAUTION

- The battery can be charged at an ambient temperature of -20°C to 50°C (-4°F ~122°F), and the optimum charging temperature is 0°C to 40°C (32°F ~104°F).
- The charger is powered by AC 220 V.
- The recommended battery charge time is 4 hours.
- Exceeding the maximum charging time may reduce the life and efficiency of the battery and may even cause explosion.

### ⚠ CAUTION

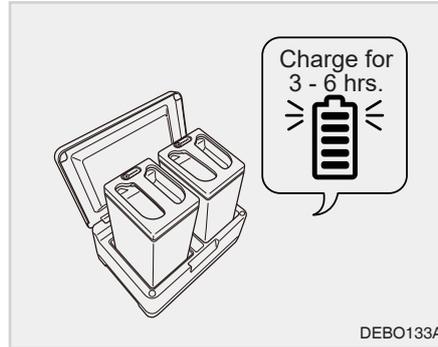
- If any unusual conditions are detected during the battery charging process, such as odor, excessive heat, discoloration, or deformation, cease charging immediately.
- Refrain from charging the battery within 4 meters of an open flame.
- Exercise caution to prevent shocks to both the battery and charger during the charging process.
- Use only our genuine batteries and chargers.
- Plug only one charging cradle into a single outlet when charging the battery. The use of multiple charging cradles may result in overcurrent, potentially triggering the earth leakage breaker.

### ⚠ CAUTION

- Ensure that the vents are not blocked during use.
- Do not attempt to modify, disassemble, or repair the product in anyway.

Item	Description
Size	454 mm x 258 mm x 191 mm
Weight	4 Kg
AC power	220 V
AC current	8 A
Simultaneously chargeable battery quantity	2 EA
Charging current	8.6 A
Charging voltage	DC 58 V
Charging hour	Within 4 hours
Rated output	1,012 W
Charger output	1,020 W
Charger input power	1,100 W
System power consumption	100 W
Operating temperature	- 20 °C~ + 50 °C
Cooling type	Air Fan
Illumination	10 LED
Safety system	OTP, OVP, OCP
Efficiency	> 90%

## INSTRUCTIONS FOR USING A STANDARD CHARGER

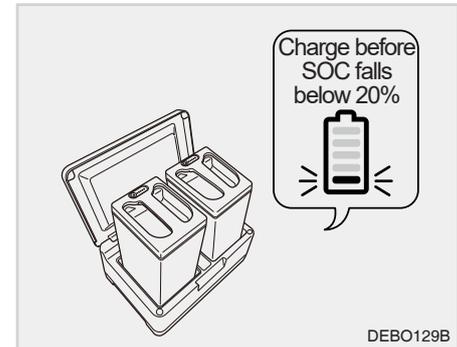


Stop charging when the battery is fully charged, and do not exceed a maximum of 6 hours of charging time.



### CAUTION

- **The battery's life is shortened and its efficiency is reduced.**

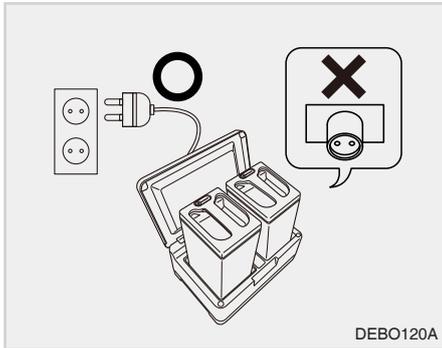


A fully discharged battery can cause serious performance issues, so recharge it when it's at least 20% full.



### CAUTION

- **No power is supplied, rendering it unable to operate.**
- **After extended periods of parking without use, the vehicle may not start due to a depleted battery.**

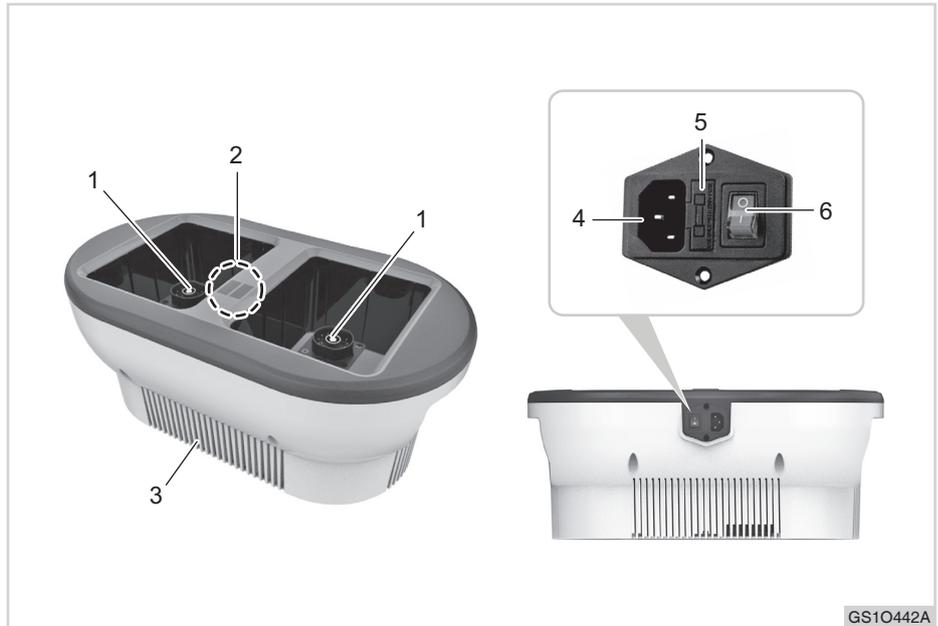


When charging batteries, connect only one charger to one outlet.

**⚠ CAUTION**

- **Overcurrent can cause a short circuit or damage the charger. Stop driving immediately and contact the service center.**

► **COMPONENTS**



(1) Battery charging port  
(2) Charging status indicator

(3) Air vent  
(4) Power socket

(5) Fuse  
(6) Power switch

**► HOW TO USE**

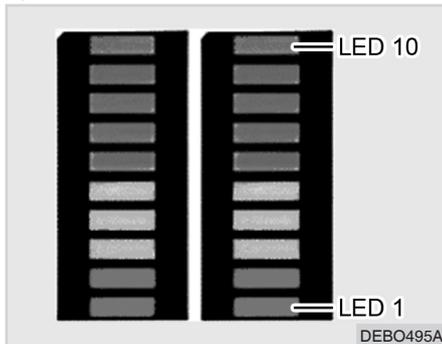
1. Connect the power cable to the power socket on the back of the charger.
2. Activate the power switch located at the back of the charger to set it to standby mode.
3. Upon inserting the batteries into the designated compartment, the charging process initiates automatically, accompanied by the automatic uploading of battery information. The LED lamp provides indications of both the charging progress and operational status.
4. When charging is complete, remove the battery and turn off the power switch.

► STATUS INDICATION WITH LEDES

LED operation

□ OFF ■ ON ◐ Blinking

Operating status indicated by LED operation



The LED lamp indicates the remaining charge level. And, one bar is equivalent to 10%.

Operating status	LED operation		Tasks and actions
The power supply is active.		All LED segments blink slowly.	<ol style="list-style-type: none"> <li>1. Insert the battery to start charging once the lamp starts flashing.</li> <li>2. Verify that charging is in progress normally.</li> </ol>
The batteries are installed.		The LED segments illuminate sequentially from the bottom.	
During charging		After the corresponding LED segments for the current State of Charge (SOC) blink, they illuminate according to the prescribed pattern.	
Communication error		All LED segments rapidly flash.	<ol style="list-style-type: none"> <li>1. Stop charging if the same symptom occurs after disconnecting and reconnecting the battery.</li> <li>2. Turn off the power and contact your service center.</li> </ol>

Operating status	LED operation		Tasks and actions
Overheated charger		LED segment #1 blinks quickly.	<ol style="list-style-type: none"> <li>1. The interior of the charger is overheated.</li> <li>2. Ensure that the fan is operating normally.</li> <li>3. If the fan is operating normally, turn off the power and wait for 5 to 10 minutes before attempting to charge again.</li> <li>4. If the fan is not operating, turn off the power and contact your service center.</li> </ol>

### ► OPERATING INSTRUCTIONS

1. Connect the output end of the charging cable to the charger and the input end to a 220-V power source.
2. When the battery is properly inserted into the charger, the current SOC is simultaneously displayed on the LED window along with the corresponding audio signal. It is not necessary to distinguish between left and right orientation when inserting the battery into the charger.
3. When all LED segments illuminate, signaling a fully charged battery, the State of Charge (SOC) indicator will toggle on and off for 30 seconds. The display can be activated by pressing the button during this period.
4. Place the fully charged battery into the vehicle and check if it powers up.
5. The vehicle will not function if the SOC difference between the two batteries exceeds 50%. Therefore, it is recommended to charge both batteries before use.

**⚠ WARNING**

- *Charge the high-voltage battery immediately when its charge level is low.*
- *During charging, exclusively utilize a designated charger, refraining from its use with any other electrical appliances.*
- *Maintain a clean space, free from flammable or hazardous materials, and ensure adequate ventilation.*
- *If you detect any burning smell, excessive heat, discoloration, or deformation during the charging process, cease charging immediately.*
- *Avoid handling the power plug or charging plug with wet hands.*
- *Refrain from charging in areas prone to lightning strikes.*
- *Avoid dropping the charger or exposing it to strong impacts.*

**⚠ DANGER: Electric shock risk**

- If water is accidentally spilled on the charger and battery during the charging process, promptly disconnect the power, and contact both the manufacturer and the charger supplier for assistance.
- The charger body is not waterproof. Do not use the charger if there is moisture inside, and always check for safety.

**⚠ CAUTION**

- Ensure the charging cable is securely connected.
- Prior to charging, inspect the charging socket for any damage and maintain cleanliness.

**⚠ CAUTION**

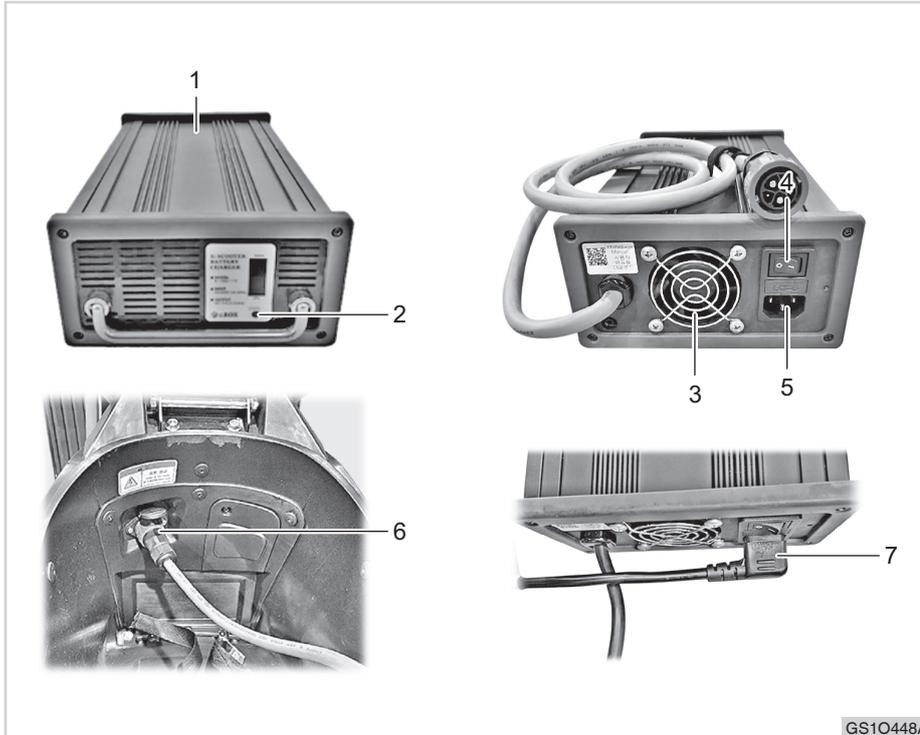
- Charge and store away from fire hazards, including high temperatures, moisture, and water.
- Avoid placing heavy objects on top of the charger.
- Be cautious not to trip over the charging cord while it is in use.

**📖 NOTE**

- Charging is feasible within a room temperature range of 0°C to 40°C, however, the ideal temperature for optimal charging lies between 10° C and 25°C.
- For more details, refer to the separate charging cradle user manual.

## PLUG-IN CHARGER

### ► NAME OF EACH PART



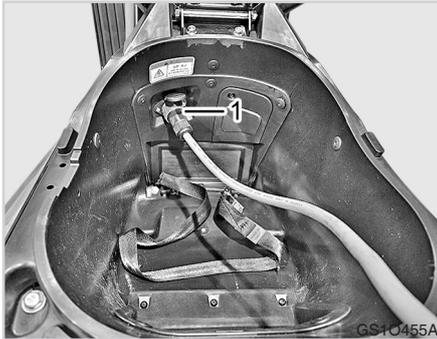
- (1) Charge case
- (2) LED indicator light
- (3) Colling fan
- (4) ON/OFF switch
- (5) AC power inlet
- (6) Charger connector
- (7) AC power cable - 3m of length

## ► SPECIFICATIONS

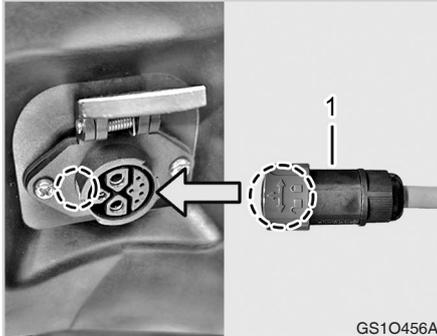
Items	Items detail	Spec.
Battery	Rated voltage(V), Capacity(Ah)	51.66 V, 27.62 Ah
	Installation pattern on the vehicle	2 battery packs connected in series
Input (AC)	Rated voltage (AC)	220 V
	Allowable voltage range	220 V ~ 240 V
	Frequency	50 Hz ~ 60 Hz
Output (DC)	Output voltage	DC 116.2 V
	Output current	Max 8.8 A
	Charging time	4 hours or less
	Charging methods	CC/CV
Cooling and allowable temperature	Colling methods	Air cooling
	Allowable operating temperature	-20 °C ~ 50 °C, -40 °F ~ 122 °F
	Storage temperature	-40 °C ~ 85 °C, -40 °F ~ 185 °F
	Humidity	Max 85 %
Dimension	L x W x H	295 x 170 x 90
	Weight	3.16 kg
	Charger light	LED
	AC/DC ports	DC: 1,500 mm (Orange wire), AC: 3,000 mm

Items	Items detail	Spec.
Charging section display	Waiting for battery recognition	LED: Green/Orange alternately flashes
		SOC LED: -
	Constant current charging (CC Mode)	LED: Orange keeps ON
		SOC LED: Flashes at that level(10 steps), Previous lever keeps ON
	Constant voltage charging (CV Mode)	LED: Green flashes
		SOC LED: Flashes at that level(10 steps), Previous lever keeps ON
Charging complete	LED: Green keeps ON	
	SOC LED: Previous level keeps ON	
Communication method	Interface	Insulation CAN 2.0 A, 500 kbps
Certification	Insulation stability of high-voltage electrical equipment	Article 69-3 of the Automobile Regulations
	KC Certification	Electromagnetic waves, safety certification
	CE Certification	Electromagnetic waves, safety certification
	Vehicle EMC	KSC9990
Protection function	Overvoltage protection	Over $120 \pm 2.4$ V
	Overcurrent protection	Over 9.5 A
	Output reverse polarity protection	There should be no problem
	Output short circuit protection function	There should be no problem
IP grade	Waterproof, dustproof	None

## ► HOW TO CHARGE BY PLUG IN



GS10455A



GS10456A

(1) Charger connector



GS10457A



GS10457A

(1) Under-seat storage box  
(2) Charger

1. Open the seat cover and connect the charger connector to the vehicle.
2. Close the seat cover and plug the charger cord into a 220V outlet.
3. Turn on the charger power switch to start charging.
4. When charging is complete, turn off the charger power switch and unplug it from the 220V outlet.
5. Open the seat cover and disconnect the charger connector.

## ► HOW TO RECHARGE WHEN THE CHARGING CABLE IS DISCONNECTED DURING CHARGING

If the charging cable is disconnected during charging, charging will stop and charging will not resume even if the charging cable is reconnected.

To resume charging, turn the charger power switch to OFF and then ON while the charging cable is connected to the vehicle.

 **CAUTION**

- Do not charge the charger while it is inside the seat box. (Internal heat during charging may cause fire)
- Starting and charging are possible with both the battery cover and the seat closed. (Starting and charging are not possible with either the battery cover or the seat open.)
- When storing the charger in the seat box, please place it in the correct location.
- Store the charger outside. When moving the charger after storing it in the seat box, secure the charger firmly with the belt inside the seat box to prevent it from shaking.
- Do not use high pressure water jets inside the seat box when washing your motorcycle. (The charger is not waterproof.)

 **CAUTION**

- If you unplug the AC power cord or turn OFF the main power of the charger, the vehicle will not recognize the charger.
- When not charging, please unplug the charger.
- If possible, do not disconnect the charging cable while charging.
- Charging and starting the vehicle are not possible when the battery cover or seat cover is open (“OP” appears on the instrument panel).
- Even if the KEY is turned to the ON position during charging, charging will continue, and the KEY ON function will automatically operate after full charging, so the user must be careful.

 **CAUTION**

- Please do not allow others to tamper with the charging socket while the vehicle is parked.
- Check the charging connectors before charging and always keep them clean.
- The charging socket is a high voltage circuit, so do not touch the socket terminals with your hands.
- Charge in a place where there is no risk of short circuit or fire due to high temperature, humidity, or moisture.

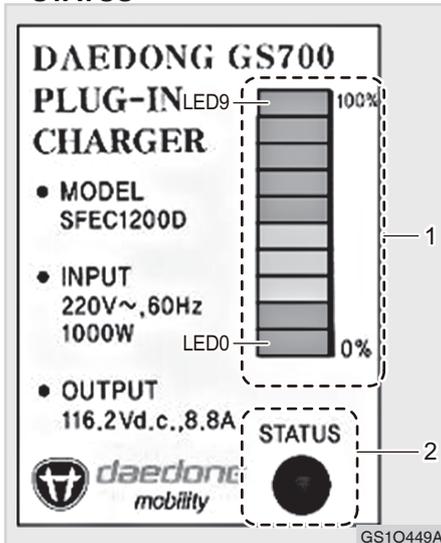
 **WARNING**

- ***Do not remove the charger while charging.***
- ***Since driving is possible when the charging switch is turned OFF while the charging cable is connected, be sure to disconnect and store the charging cable before driving.***
- ***The charger body is not waterproof. If moisture enters the charger, do not use it and always check for safety.***

 **NOTE**

- The battery temperature for charging is 0~55°C (32~ 131°F). If a charger error (LED4) occurs after high-speed driving or in summer, cool the battery to ambient temperature before charging. Charging a high-temperature battery may take longer than usual.
- Charging is not possible when the battery temperature is below 0°C (32°F). Warm up the battery by leaving it indoors, or ride the motorcycle for a while before charging.

### ▶ LED INDICATES THE CHARGE STATUS



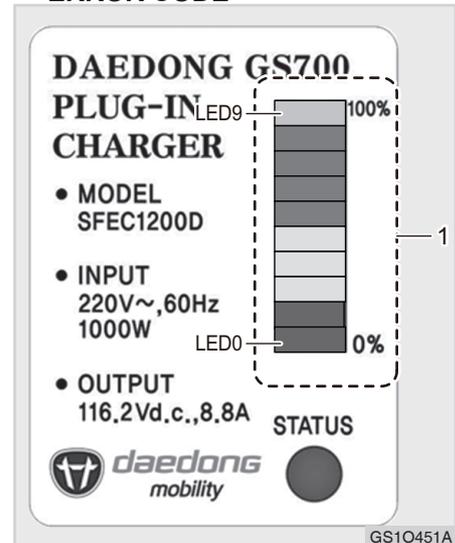
- (1) LED indicates the SOC charge status
  - Displays 10 to 100% in 10 steps
- (2) STATUS LED indicates the operating status of the charger.
  - CC: Orange LED
  - CV: Green LED
  - Fault : Red LED

LED steps	Charge amount
LED 9	100%
LED 8	90 ~ 99 %
LED 7	80 ~ 89 %
LED 6	70 ~ 79 %
LED 5	60 ~ 69 %
LED 4	50 ~ 59 %
LED 3	40 ~ 49 %
LED 2	30 ~ 39 %
LED 1	20 ~ 29 %
LED 0	10 ~ 19 %

### NOTE

- If less than 10% of charge remains, the LED 0 level bar will blink.

### ▶ SOLUTIONS FOR EACH ERROR CODE

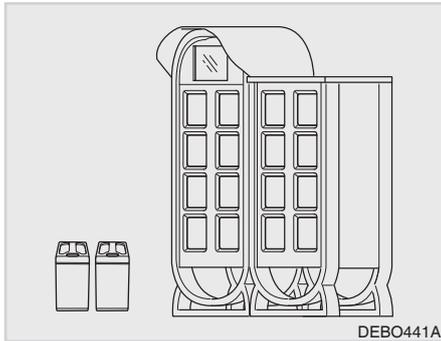


- (1) LED0 ~ LED9 Lights on

LED status	Solutions
LED9	<ul style="list-style-type: none"> <li>• Reconnect the charging connector to check for poor contact and see if it charges normally. → Close the battery cover and seat, connect the charger to AC power, and turn the charger switch ON to start charging.</li> <li>• Connect the AC power supply while the charging connector is not connected to the vehicle, and check if the relay contact sound (click) is heard within 4 to 5 seconds.</li> <li>• Charger needs repair</li> </ul>
LED8 OR All LED OFF	<ul style="list-style-type: none"> <li>• VCU, Check the status of the CAN communication line connected to the battery</li> <li>• Check the connection status of the communication connector that controls the SOC LED inside the charger.</li> <li>• Charger needs repair</li> </ul>
LED7	<ul style="list-style-type: none"> <li>• Charger needs repair</li> </ul>
LED6	<ul style="list-style-type: none"> <li>• Charger needs repair</li> </ul>
LED5	<ul style="list-style-type: none"> <li>• You need to reconnect AC power to the charger and see if the same error occurs. → If OCP occurs, replace the battery and check if it occurs again when attempting to charge. → If OCP occurs even after replacing the battery, the charger needs to be repaired.</li> <li>• Charger needs repair</li> </ul>
LED4 ↔ All LED ON (Repeated)	<ul style="list-style-type: none"> <li>• Need to check if BMS internal cell temperature reaches 0°C ~ 55°C(32°F ~ 131°F). → Charging is prohibited when the internal temperature of the battery is below 0C(32°F) or above 55°C(131°F) → After adjusting the battery pack temperature to 1 ~ 50°C(34~122°F), retry charging.</li> <li>• Check if you have done anything that is not allowed while charging, such as turning the key to the On position or opening the battery box cover or seat. → Check whether the battery box cover switch and seat switch are working</li> <li>• Charger needs repair</li> </ul>

LED status	Solutions
LED3	<ul style="list-style-type: none"><li>• Low temperature charging error, retry charging at room temperature</li><li>• If the error occurs even when the ambient temperature is <math>-20\text{C}(-4^{\circ}\text{F})</math> or higher, repair is required.</li></ul>
LED2	<ul style="list-style-type: none"><li>• If a high temperature charging error occurs, retry charging at an appropriate temperature.</li><li>• If the error occurs even when the ambient temperature is below <math>60\text{C}(140^{\circ}\text{F})</math>, repair is required.</li></ul>
LED1	<ul style="list-style-type: none"><li>• Check the charger output cable connection status</li><li>• Charger needs repair</li><li>• Check if the battery cover or seat cover is open.</li></ul>
LED0	<ul style="list-style-type: none"><li>• Check the charger output cable connection status</li><li>• Charger needs repair</li></ul>

## SHARED CHARGER



1. Shared chargers are a solution to overcome the limitations of driving range on a single charge and to eliminate the inconvenience of having to wait for the battery to charge.
2. When using shared batteries or shared charging stations, please contact the operating office for guidance.
3. Please use it according to the instructions of the shared charging station operator.

4. For any inconveniences or after-sales service related to shared chargers, please contact the shared charging system operator.

### CAUTION

- **When using a shared charger, the E-bike main switch must be in the OFF position.**
- **When inserting a shared rechargeable battery, remove any foreign substances from the battery terminals.**
- **Before installing the shared rechargeable battery in the vehicle, remove any foreign substances from the bottom of the battery. Failure to do so may cause malfunction.**
- **After replacing the battery, there may be a KEY ON delay of approximately 3 seconds while the system performs a self-check.**

## *DRIVING INSTRUCTIONS*

<b>INSPECTION BEFORE DRIVING</b> .....	<b>5-2</b>
<b>OPERATION</b> .....	<b>5-2</b>
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STOPPING .....	5-9

# 5

## INSPECTION BEFORE DRIVING

It is a good practice to know the condition of your vehicle before you start it. Please adhere to the daily routine check list before driving each day.

### CAUTION

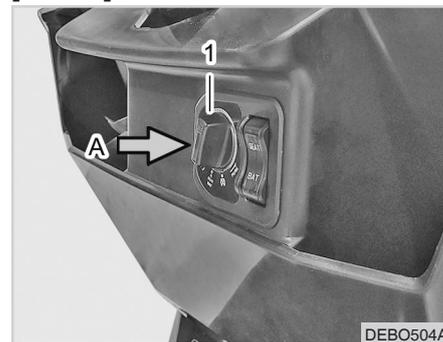
- **When conducting the daily routine inspection, park the E-bike on level ground, bring it to a complete stop, and utilize the main stand.**
- **Be sure to read and understand the information titled as “DANGER”, “WARNING”, and “CAUTION” thoroughly for the safe operation.**

## INSPECTION CHECKLIST BEFORE DRIVING

- Walk around inspection.
- Battery SOC.
- Brake levers.
- All dash indicators.
- Headlamps and turn signal lamps.
- Accessible wiring harness for any damage.
- All “DANGER” and “WARNING” decals.
- Tire pressure and wheel bolt tightness condition.

For detailed information, refer to “Maintenance schedule chart” in chapter 6.

## OPERATION STARTING [GS100]



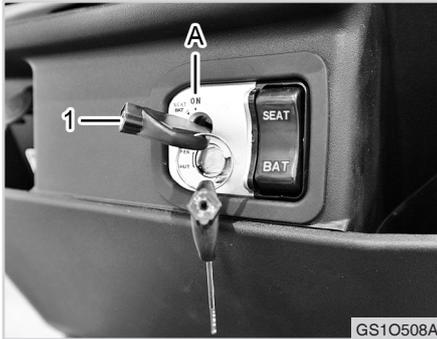
(1) Main switch  
(A) Press

Pressing the switch lever once will perform a smart key search. Once the smart key search and certification are complete, the blue light on the key knob will light up.

After certification is complete, turn the switch lever to the “ON” position within 5 seconds.

### CAUTION

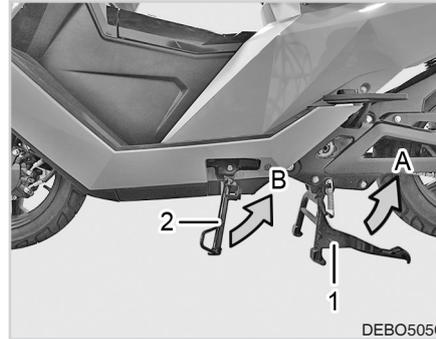
- **The smart key must be within 1 meter of the vehicle to function.**

**[GS100 LITE/PLUG-IN]**

(1) Main switch  
(A) ON

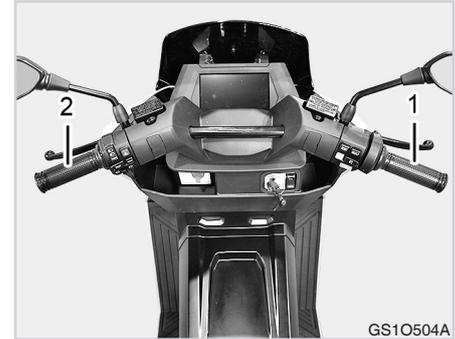
1. Insert the ignition key into the slot and turn it to the "ON" position then you're ready to drive.

The GS100 has a remote key system, while the GS100 LITE/GS100 LITE PLUGIN has a manual key system.

**READY TO DRIVE**

(1) Main stand                      (2) Side stand  
(A) Tilt                                  (B) Raise

1. Tilt the main stand back.
2. Raise the side stand.



(1) Throttle grip                      (2) Handle grip

3. Hold the grips with both hands.
4. Adjust the side mirror angle.
5. Mount the vehicle from the left side and take a seat on the driver's seat.
6. Keep your left foot on the ground to avoid falling.

 **CAUTION**

- **After riding, hold the left brake lever firmly to prevent sudden acceleration. Sudden vehicle departures can lead to crashes and injuries.**

7. Check the battery level.
8. Check the driving mode.

**[GS100]**



9. While holding the rear brake lever, press and hold the Ready button on the right-hand handle for 2 seconds, and verify that the READY indicator on the instrument panel illuminates.

 **CAUTION**

- **If the READY indicator does not illuminate, the vehicle cannot be started.**

**[GS100 LITE/PLUG-IN]**





(1) Throttle grip  
(A) Turn

10. Release the rear brake lever, turn the throttle grip slowly, and the vehicle will start smoothly.
11. Initiate acceleration gradually, as abruptly turning the throttle grip can lead to sudden acceleration.
12. Pulling the throttle grip for more than 6 seconds while holding the brake levers will de-energize the motor, preventing the vehicle from starting. At this time, if you simultaneously return the brake lever

and throttle grip to their original positions and then pull the throttle grip again, the motor will rotate and the vehicle will start.

### ⚠ CAUTION

- Do not turn the throttle grip while pulling the brake lever.
- When stopping the vehicle, avoid operating the throttle grip with the brake lever pulled.
- Avoid sharply turning the throttle grip when releasing the left brake lever. Sudden increases in the motor's RPM can cause the vehicle to jerk out of control, leading to serious injury.
- When departing, return the brake levers to their home position and ensure the brakes are released.
- Abrupt starts and stops are detrimental to the vehicle.

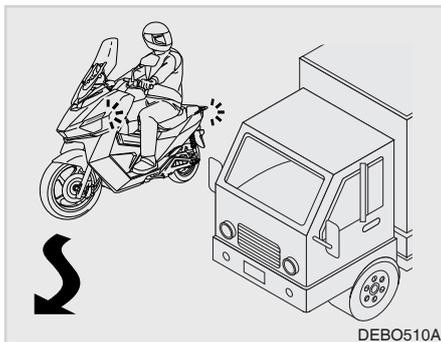
### ⚠ CAUTION

- **Warning sound at low speeds:**  
A warning tone is emitted at low speeds to prevent pedestrian accidents that may be caused by silent electric scooters. (Speed for activation: 5 - 20 km/h)

### ⚠ WARNING

- *Before turning the ignition switch to the "ON" position, check the throttle grip operation. If the motor speed does not decrease when the throttle grip is turned and then released, it may lead to sudden departure and compromised braking, posing a risk of death or serious injury.*

## DRIVING



1. Before departing, activate the turn signal lamp and check behind you for safety.

### **⚠ WARNING**

- *If the vehicle is not equipped with rearview mirrors, changing lanes may pose a risk as you may not be able to see what's behind you, potentially resulting in collisions with other vehicles and causing death or serious injury.*

### **⚠ WARNING**

- *If you fail to raise the side stands before departing, the READY lamp on the instrument panel will not illuminate, and the vehicle will not start. (GS100)*



(1) Throttle grip

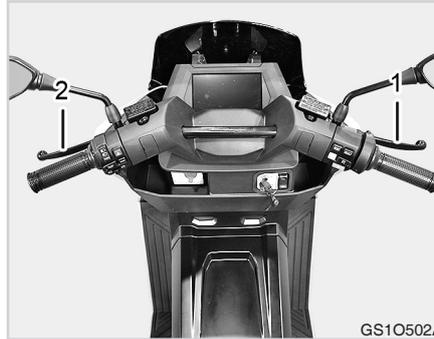
(A) Accelerate

(B) Release

2. The throttle grip is used to control speeds. Gently grasp the throttle grip and gradually turn it to increase speed.
3. When driving on public roads, turn it slowly.
4. When going up a hill, turn the throttle grip a little faster.
5. To slow down, return the throttle grip to its home position.

### ⚠ CAUTION

- If driving at high speeds and approaching a speed bump, reduce speed to safely navigate it, as the bottom of the vehicle may come into contact with the bump, potentially causing rollover injuries.
- This vehicle is intended for use on paved roads. When driving on mountainous roads, be aware that severe vibrations can dislodge cables and wires from clamps, leading to damage and the risk of accidents.



- (1) Front brake  
 (2) CBS brake (front and rear wheels inter-locked)

6. Use the front and rear brakes simultaneously.
7. To skillfully maneuver the brakes, return the throttle grip to the home position, grip the brake levers, and apply gentle pressure at the beginning, gradually increasing to firm pressure towards the end.
8. For the safest short-distance stops, engage both the front and rear brakes simultaneously.

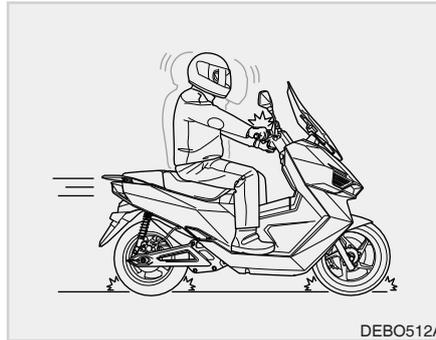
9. Using only one brake can cause the vehicle to skid sideways, resulting in death or serious injury.
10. Hard braking and sharp steering maneuvers are dangerous as they can result in the vehicle skidding or tipping over. Wet pavement, particularly during rain, poses a danger as hard braking can lead to tire skidding, increasing the risk of falling sideways.

### ⚠ WARNING

- **Using only one brake can cause the vehicle to skid sideways, resulting in death or serious injury.**
- **Simultaneously use the front and rear brakes, and ensure regular inspection of the brake pads. Relying on only one brake may lead to premature wear of the brake pad and result in compromised braking, potentially causing a collision and resulting in death or serious injury.**

**NOTE**

- As a general rule, distributing braking force in a front-to-rear ratio of 7:3 on dry roads and a front-to-rear ratio of 6:4 on rainy or slippery roads can help reduce stopping distances and extend brake life.

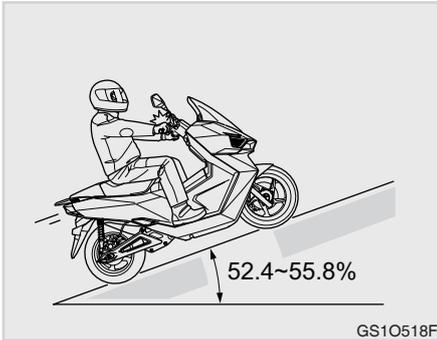


11. Exercise extreme caution when driving in rainy weather. In such conditions, or when the road surface is wet, anticipate that your brake stopping distance will be longer compared to a clear day.
12. Take your time when maneuvering, driving at a reduced speed, and applying the brakes in advance.
13. When descending a hill, decelerate by releasing the throttle grip and gently applying the brakes.

14. Exercise caution and drive at a slow pace on snowy or icy roads, as it is easy for the tires to lose traction and spin out.

**CAUTION**

- **Speeding in the rain can lead to hydroplaning or rollovers due to skidding.**
- **Additionally, in wet weather, painted lane markings on roads can contribute to skidding and rollovers, especially during hard stops and turns.**



15. Drive with caution to prevent being pushed backward when starting on a steep hill or restarting after a stop.

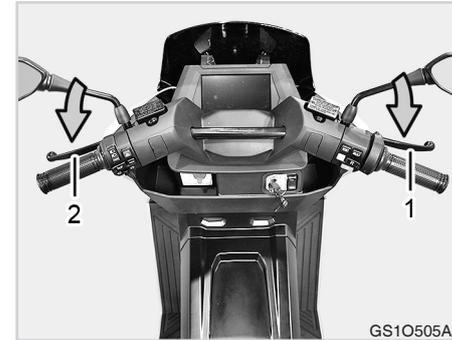
### ⚠ CAUTION

- Riding at an angle exceeding the maximum climbing angle or navigating uphill with a heavy load not only diminishes motor performance but also hampers control, posing a risk of serious injury in the event of a rollover.

### 📖 NOTE

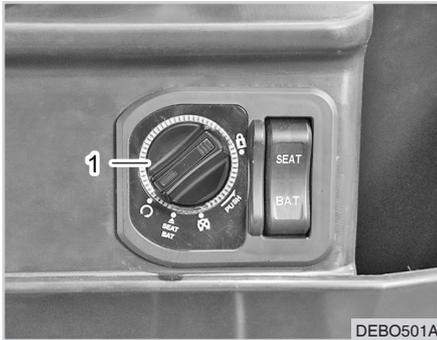
- This vehicle has a maximum climbing angle of GS100: 55.8%, GS100 LITE/GS100 LITE PLUG-IN: 52.4% based on a single occupant, and attempting to climb beyond this angle can strain the motor.

## STOPPING



- (1) Front brake  
(2) CBS Front wheel + Rear brake

1. Approach the stop by activating the turn signal lamps in advance. Gradually move towards the right side, attentively observing the vehicles behind and to the side.
2. Bring the throttle grip back to its original position and engage both the front and rear brakes. At this point, the brake lamp (stop lamp) will illuminate to signal vehicles behind you to come to a stop.

**[GS100]**

(1) Main switch

**[GS100 LITE/PLUG-IN]**

(1) Main switch

3. After the vehicle has come to a complete stop, cut off all power by returning the turn signal switch to its home position and switching the start switch to the "OFF" position.

⚠ **CAUTION**

- Do not operate the ignition switch while driving. While the ignition switch is in the "OFF" or "LOCK" positions, the electrical system will not function.
- Operating the ignition switch while driving may lead to an unintended accident, so ensure you come to a complete stop before using it.



(1) Main stand

4. To park the vehicle, dismount to the left and utilize the main stand on a flat surface.
5. Set up the main stand on a flat surface away from traffic. Placing it in an unstable location may cause the vehicle to fall over.
6. Hold the handlebar straight with your left hand, push up on the rear carrier with your right hand, and simultaneously set the main stand firmly on the ground with your right foot.

7. When parking to prevent theft, ensure to engage the handlebar lock, remove the ignition switch, and lock the shutter key seat. You can also use an additional security measure, such as a chain lock.

**CAUTION**

- **Select a safe parking spot that doesn't obstruct traffic or pedestrians.**
- **Parking on a slope may lead to the vehicle rolling over, posing a risk of injury if people are in the vicinity.**
- **When parking on an incline with the side stand, turning the handlebar to the right can also cause the vehicle to roll over.**

**WARNING**

- *Driving downhill with the key in the OFF position can cause an MCU fault. This fault is not covered by your warranty.*

MEMO



# SERVICE AND INSPECTION

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# 6

## INSPECTION GUIDE

To ensure your safety, we will guide you through the recommended maintenance check list. Due to driving conditions and habits, various parts of the vehicle may deteriorate and wear out. Regular inspections are essential for safe operation, preventing potential accidents during vehicle use.

### WARNING

- *Neglecting periodic checks can pose significant safety risks.*
- *When conducting maintenance checks, adhere to the methods and procedures outlined in the user's manual.*
- *Improper or insufficient maintenance can significantly contribute to poor vehicle performance, vehicle rollovers, damage, and the risk of personal injury or fatal accidents.*

## RECALLS

This system is designed to prevent accidents due to defects in the structure or devices of automobiles and to protect customers.

If it's found that a product manufactured by the Company doesn't comply with safety regulations in its structure, device, performance, etc., the Company will notify the Ministry of Land, Infrastructure, and Transport and provide free repairs. Additionally, if there's a need to respond even in cases that don't meet the safety standards, a separate special service is offered.

## SPECIAL SERVICES

Even if an issue does not meet our security standards, we will repair it free of charge if we deem it necessary for safety reasons or to improve the quality of our products.

## MAINTENANCE CHECK LIST

### DAILY CHECK ITEMS

To ensure safe and comfortable use of the vehicle, drivers must perform daily checks according to the following maintenance items before driving.

Maintenance schedule		Reference page
Item	Description	
Start system	Verify that it starts up normally.	
Motor status	Check for noises and abnormal odors, and test the operation at low speeds and during acceleration.	
Battery status and charge	Inspect the battery for damage, check its SOC, and recharge it if the SOC is low.	
Brake fluid level	Check the oil level and add as needed. Do not overfill.	
Brake lever free play	If the inspection results deviate from the standard, adjust it to meet the specified value.	
Tires	Inspect tires for wear, damage, specified size, and correct air inflation pressure.	
Lamps and turn signal lamps	Inspect for normal operation and repair if any issues are detected.	
Stands	Clean the main and side stands.	
Throttle grip operation	Inspect for normal operation and repair if any issues are detected.	
In the event of a malfunction during driving	Promptly identify the cause and, if unable to rectify it yourself, contact a service center immediately.	
General items	Check for loose or broken parts, damaged body section, instrument panel operation, loose wheel nuts / bolts, oil leaks and damaged or missing decals, and seats.	

## DAILY CHECKLIST

Component	Maintenance schedule			Remarks
	Daily check	Weekly check	Monthly check	
Walk around inspection (covers)	<input type="radio"/>		<input type="radio"/>	
Mirror and horn operation	<input type="radio"/>		<input type="radio"/>	
Instrument panel/power unit status	<input type="radio"/>		<input type="radio"/>	
Front and rear lamps and lights	<input type="radio"/>		<input type="radio"/>	
Hazard warning flasher	<input type="radio"/>		<input type="radio"/>	
Battery SOC	<input type="radio"/>		<input type="radio"/>	
Left-hand/right-hand switches	<input type="radio"/>		<input type="radio"/>	
Tire tread	<input type="radio"/>		<input type="radio"/>	
Tire inflation pressure	<input type="radio"/>		<input type="radio"/>	
Front/Rear pads	<input type="radio"/>		<input type="radio"/>	
Brakes	<input type="radio"/>		<input type="radio"/>	
Brake fluid	<input type="radio"/>		<input type="radio"/>	
Front/Rear shock absorbers	<input type="radio"/>		<input type="radio"/>	
Body bolts/nuts	<input type="radio"/>		<input type="radio"/>	

Component	Maintenance schedule			Remarks
	Daily check	Weekly check	Monthly check	
Side stand operation	<input type="radio"/>		<input type="radio"/>	
Main stand operation	<input type="radio"/>		<input type="radio"/>	
Other driving anomalies	<input type="radio"/>		<input type="radio"/>	
Front/Rear dashcam exterior		<input type="radio"/>	<input type="radio"/>	
Battery cover/latch		<input type="radio"/>	<input type="radio"/>	
Trunk latch/cover		<input type="radio"/>	<input type="radio"/>	
Throttle grip operation		<input type="radio"/>	<input type="radio"/>	
Front/Rear discs		<input type="radio"/>	<input type="radio"/>	
Brake fluid leaks		<input type="radio"/>	<input type="radio"/>	
Traction motor		<input type="radio"/>	<input type="radio"/>	
Chain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

※ Refer to section "Service code" for detailed information related to service codes.

## MAINTENANCE SCHEDULE CHART

This involves checking specific items based on mileage and time of use when the vehicle is operated under normal conditions.

No.	Interval (mileage/duration) Inspection item		3,000 km	5,000 km	10,000 km	20,000 km	30,000 km	As neces- sary	Refer to Note	Re- marks
			3 months	6 months	12 months	24 months	36 months			
1	Buttons/Switches	Check	○	○	○	○	○			
2	Lamps	Check		○	○	○	○			
3	Motor oil	Check		○	○	○				
		Replace					○		#1	
4	Battery (7.5 A)	Check	○	○	○	-	○			
		Replace	-	-	○	○	-	○	#1	
5	Coolant (GS100)	Check	○	○	○	○	-			
		Replace	-	-	-	-	○			
6	Brake pad	Check	○	○	○	○	○			
		Replace	-	○	○	○	○	○	#1	
7	Brake disc	Check	○	○	○	○	○			
		Replace	-	-	○	○	-	○	#1	
8	Brake oil	Check	○	○	○	-	○			
		Replace	-	-	-	○	-			
9	Brake hose	Check	○	○	○	○	○		#1	
10	Drive chain	Check	○	○	○	○	○	○		Tension adjustment after 1000 km
		Replace	-	-	-	○	-	○	#1	

No.	Interval (mileage/duration) Inspection item		3,000 km	5,000 km	10,000 km	20,000 km	30,000 km	As neces- sary	Refer to Note	Re- marks
			3 months	6 months	12 months	24 months	36 months			
11	Main and side stands	Check	○	○	○	○	○			
12	Steering play	Check	○	○	○	○	○			
13	Nut and bolt tightness	Check	○	○	○	○	○			
14	Wheels and tires	Replace	○	○	○	○	○	○		
15	Brake pad	Check	○	○	○	○	○	○		
16	Seat latch	Check	○	○	○	○	○			
17	Mirror	Check	○	○	○	○	○			
18	Shock absorber	Check	-	○	○	○	○			

### ⊕ IMPORTANT

- The maintenance interval is determined by the odometer in the instrument cluster or the time elapsed since the vehicle's release from the factory, whichever comes first.
- This maintenance interval is based on general maintenance conditions and may not be suitable for other conditions, depending on the work site's conditions.
- For your safety, have your vehicle checked and replaced by an authorized service center.
- The surface of the instrument panel and the control panel should be always kept clean, and any damaged or defect parts should be replaced with new ones.
- When a vehicle is utilized for business purposes, such as delivery or courier service, the durability of its parts is significantly lower than under normal usage conditions. If this applies to your situation, please contact your local authorized service center for information on the regular maintenance schedule or the required interval for changing consumables and oil.

## LUBRICANTS

To prevent serious damage to the vehicle, use only genuine fuel, oils and greases or equivalents.

No.	Item	Capacity	Oil
1	Motor oil	65 g ± 5 g	Gear oil SAE 80W 90
2	Coolant (GS100)	0.72 L ~ 0.75 L	Antifreezing solution: Ethylene glycol + Pure water (50:50)
3	Brake fluid	Fill the brake fluid tank to the upper limit after bleeding.	DOT 3 or equivalent
4	Grease	Pump the grease until a small amount oozes out through the gap, excluding the grease nipple.	SAE multi-purpose type grease

### WARNING

- ***Check the oil level periodically. Correct the oil level, if needed, before operating.***
- ***Always check and add oil with the electric scooter on a flat, level surface.***

## CHECKING THE SEATS AND VEHICLE APPEARANCE

1. Always inspect the condition of the seats and the overall appearance of the vehicle before operating it.
2. If it's damaged, have it painted and repaired.

## CHECKING THE INSTRUMENT PANEL AND INDICATORS

1. Inspect the instrument panel for broken gauges and indicators.
2. If it's broken, replace it.

### WARNING

- *Vehicles that have been modified without approval are not covered under the warranty.*

### DANGER: Electric shock risk

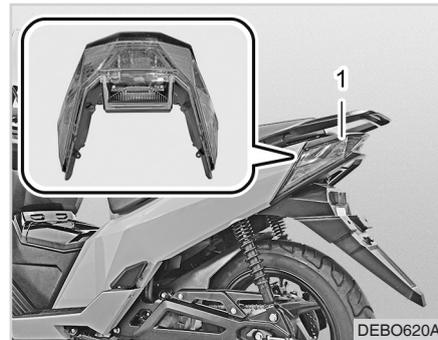
- **This vehicle is equipped with high-voltage electrical equipment. Tampering with electrical equipment can result in death or serious injury.**

## CHECKING THE HEADLAMPS, TURN SIGNAL LAMPS, AND OTHER LAMPS



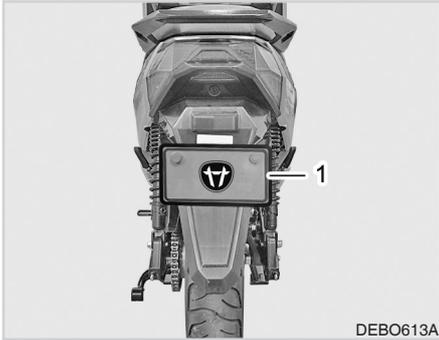
(1) Front headlamp and turn signal lamp assembly

1. Turn the KEY ON and check the operation of the lights.
2. Check the left and right turn signals and hazard lights.
3. Check the brake light by operating the brake pedal or lever.
4. Press HORN to check.
5. Check the operation of other switches.



(1) Rear stop lamp and turn signal lamp assembly

## CHECKING THE LICENSE PLATE



(1) License plate

1. Make sure that the license plate is properly attached.
2. Check the license plate for dirt and damage.

## CHECKING THE REARVIEW MIRRORS



(1) Rear view mirror

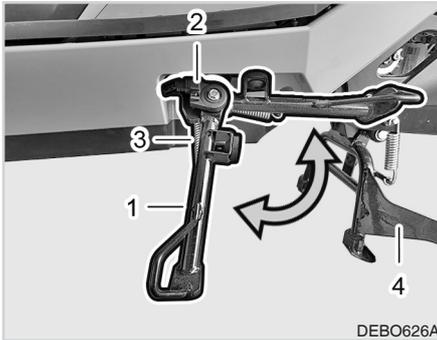
1. When seated in the correct driving position, ensure you have a clear view of what's behind you through the rearview mirrors.
2. Check the rearview mirrors for dirt and damage.



### CAUTION

- When installing the rearview mirrors, turn the handlebar left and right to ensure the mirrors do not interfere with the windshield.

## CHECKING THE SIDE STAND



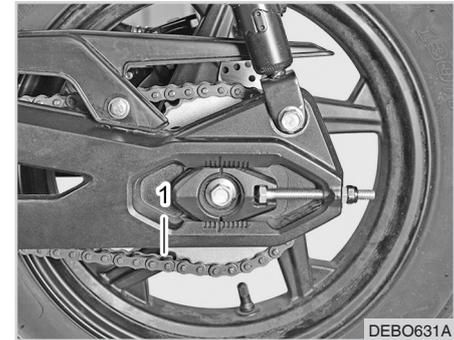
- (1) Side stand  
 (2) Side stand switch (GS100)  
 (3) Side stand spring (GS100 LITE/PLUG-IN)  
 (4) Main stand

1. Raise the main stand and stand the vehicle upright.
2. Make sure the side stand spring is not damaged or broken, and move the side stand to check for smooth operation.
3. For the GS100, check the side stand switch. (The motor should not run when the side stand is lowered.)

### NOTE

- If the operation of the side stand is stiff or not smooth, applying grease to the moving part can help improve its functionality.

## CHECKING THE DRIVE CHAIN



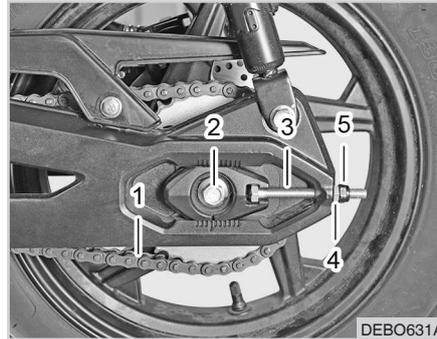
- (1) Drive chain

Visually check the drive chain for any abnormalities. Inspect the chain for loose pins, rusted links, a damaged roller, excessive wear, etc. If any defects are identified, replace the chain with a new one from your local service center.

### NOTE

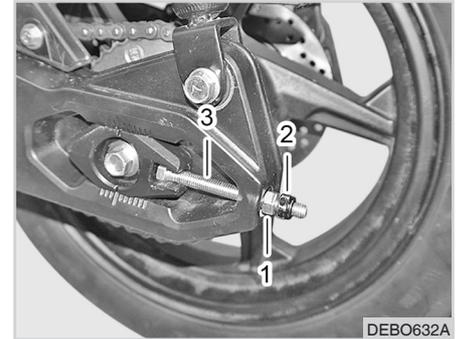
- When replacing the chain, ensure to adjust its tension to the specified value.
- When replacing the drive chain, also replace the drive sprocket with a new one.

## ADJUSTING THE DRIVE CHAIN TENSION



- (1) Drive chain (2) Rear axle anti-loose nut  
(3) Tension adjusting bolt (4) Locknut  
(5) Anti-loose nut

1. Park the vehicle on level ground, elevate the rear wheel off the ground, and secure it in a supported position.
2. Loosen the rear axle anti-lock nut.



- (1) Locknut (2) Anti-loose nut  
(3) Tension adjusting bolt

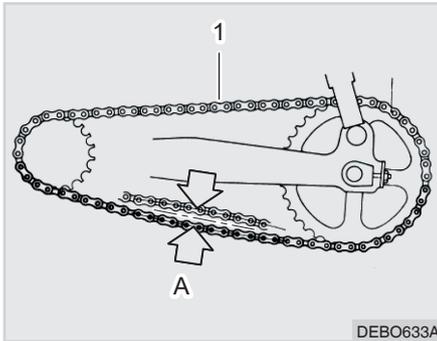
3. After loosening the anti-loose nut on the tension adjusting bolt, check the tension while tightening the locknut.

### WARNING

- **Adjust the chain tension periodically.**

## CHECKING AND CHARGING THE BATTERY

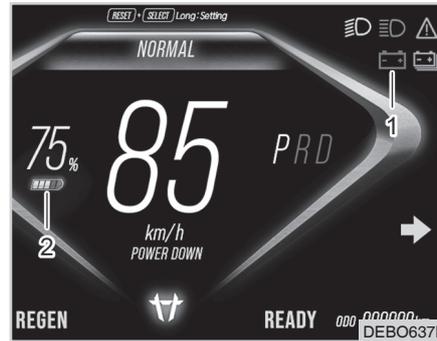
### [GS100]



- (1) Drive chain  
(A) Deflection (15 - 25 mm)

4. After checking for proper tension (15 to 25 mm deflection), tighten the anti-loose nut to the specified torque and also tighten the rear axle anti-loose nut to the specified torque.

Item	Tightening torque
Tension adjusting bolt anti-loose nut	14.7 – 24.5 N·m 1.5 – 2.5 kgf·m 10.8 – 18.0 lb·ft
Rear axle anti-loose nut	58.8 N·m 6.0 kgf·m 43.2 lb·ft



- (1) Battery warning lamp (2) Battery SOC

### [GS100 LITE/PLUG-IN]



- (1) Battery warning lamp (2) Battery SOC

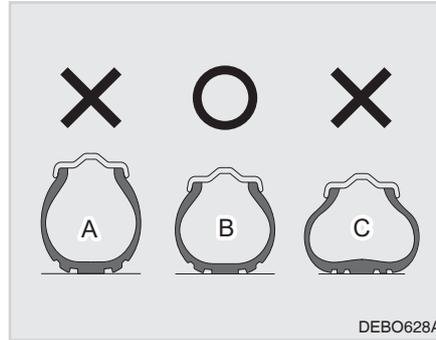
- After setting the ignition switch to the "ON" position, verify the battery level on the instrument panel to ensure it is sufficiently high for your journey to the destination.
- The battery SOC is displayed when the ignition switch or main switch is turned to the "ON" position.
- The battery warning lamp on the instrument panel flashes when the SOC (State Of Charge) is 20% or less. Charge the battery as soon as possible.
- The recommended temperature for charging is 0 to 40°C.
- The charging environment should be clean, well ventilated, and away from open flames.
- Keep flammable materials away from the battery or charger.
- When using the charger, keep it away from children.

8. Cease charging immediately if the battery emits an odor, generates excessive heat, appears discolored, deformed, or exhibits any unusual characteristics.
9. Do not connect the battery and charger to AC power for extended periods of time.
10. Charge your vehicle using the genuine charger designed for your specific model, and avoid using any other charger.
11. Avoid charging in areas where explosives or dangerous gases are stored.

### WARNING

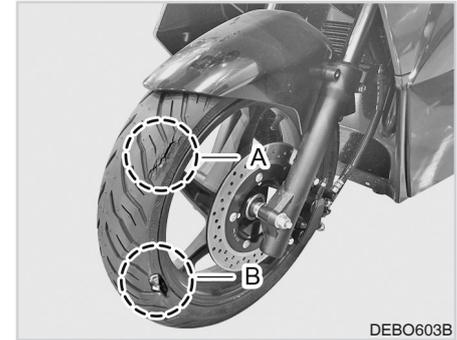
- **A new battery needs to be initially charged to 100%. For long-term storage, recharge it every month after a full charge.**
- **Charge the high-voltage battery immediately when its charge level is low.**

## CHECKING AND REPLACE TIRES



(A) Excessive  
(C) Insufficient

(B) Standard

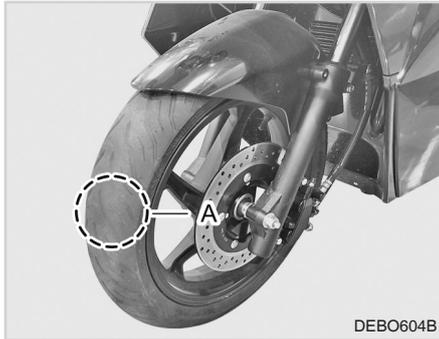


(A) Crack

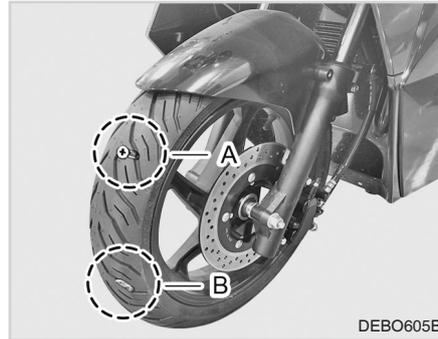
(B) Damage

1. Though the tire pressure is factory-set to the prescribed level, it naturally drops slowly in the course of time. Therefore, it should be inspected daily.

2. Check the tire treads and sides for cracks and damage.



(A) Wear



(A) Nail

(B) Foreign object



(1) Front tire

(2) Rear tire

3. Check the tire's tread for abnormal wear, such as uneven wear.

4. Check the tread and sides of the tire for foreign objects such as nails and stones.

5. Always maintain the proper tire inflation pressure. Make sure the tire pressure does not exceed the pressure recommended in the manual.

**[GS100]**

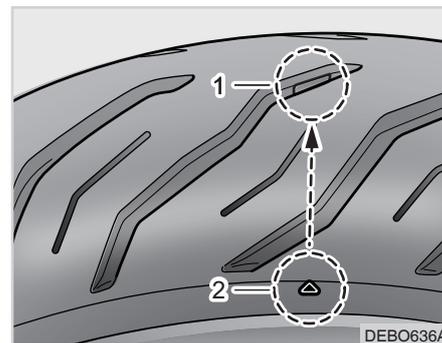
Item	Tire size	Inflation pressure
Front wheel	110/70-14	2.0 kgf/cm <sup>2</sup> 196 kPa 28 psi
Rear wheel	130/70-13	2.4 kgf/cm <sup>2</sup> 235 kPa 34 psi (1 seater)
		2.5 kgf/cm <sup>2</sup> 245 kPa 35.5 psi (2 seaters)

**[GS100 LITE/PLUG-IN]**

Item	Tire size	Inflation pressure
Front wheel	110/70-13 (48P)	1.6 ± 0.1 kgf/cm <sup>2</sup> 22.8 psi
Rear wheel	120/70-12 (51P)	1.9 ± 0.1 kgf/cm <sup>2</sup> 27.0 psi (1Seater)
		2.0 ± 0.1 kgf/cm <sup>2</sup> 28.4 psi (2 Seater)

**⚠ CAUTION**

- **Insufficient inflation pressure can result in a heavy or shaky handlebar, accelerated wear on the tire's outer edges, and increased battery consumption.**
- **On the other hand, over-inflated tires can create a sensation of a lighter and more manageable handlebar, but may result in vibrations, leading to a less comfortable ride and increased wear at the center of the tire.**



- (1) Wear limit indicator  
(2) Wear indicator (6 locations)

6. Check the tires for wear. To evaluate tire tread wear, examine the wear limit indicators located at the center of the tire, referencing the six wear indicators depicted in the figure. If significant wear is observed, replace the tire with a new one.

### ⚠ WARNING

- *Do not use tires larger or smaller than specified.*
- *Do not disassemble or assemble the tire. If it is necessary to disassemble/assemble the tire, let a qualified service personnel perform the work.*

### ⚠ CAUTION

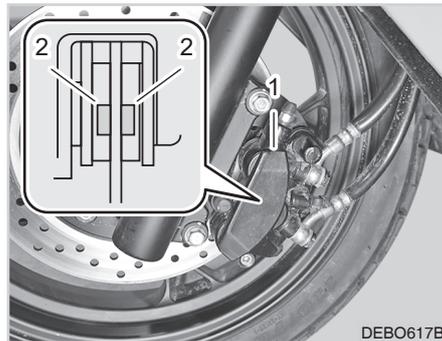
- **This vehicle features tubeless tires, hence it is imperative to use tubeless tires when replacing them.**
- **In the event of a puncture, reach out to our authorized service center for repair.**
- **Using non-compliant tires may result in flats due to wear from body interference, potentially causing rollover injuries.**

### ⚠ CAUTION

- **Ensure proper disposal of waste tires in designated locations to avoid environmental pollution and legal consequences.**

## CHECKING AND REPLACING THE FRONT AND REAR BRAKE PADS

### FRONT BRAKE



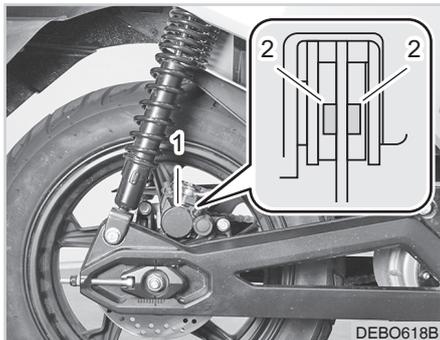
- (1) Front brake  
(2) Brake pad wear limit marks

1. Check the brake pad for wear by engaging the front brake lever.
2. If the pad wear is over the wear limit mark, replace it with a new one.

### ⚠ WARNING

- ***If the brake pad measures less than 1mm in thickness, replace the pad immediately.***

## REAR BRAKE



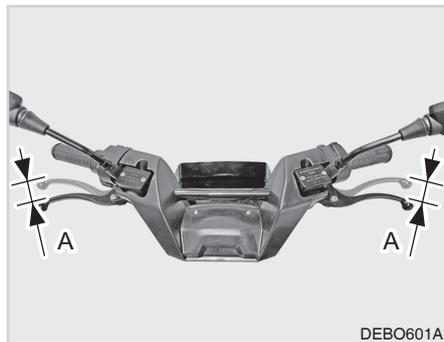
- (1) Rear brake  
(2) Brake pad wear limit marks

1. Check the brake pad for wear by engaging the rear brake lever.
2. If the pad wear is over the wear limit mark, replace it with a new one.

**⚠ WARNING**

- **If the brake pad measures less than 1mm in thickness, replace the pad immediately.**

## CHECKING AND ADJUSTING THE BRAKE LEVER FREE PLAY



(A) Brake lever free play

1. With the brake lever released, verify the proper free play by lightly gripping the lever and pulling until resistance is felt.
2. If the brake lever play exceeds the prescribed value, have it checked by a service center.

**⚠ CAUTION**

- **When attaching accessories around the brake lever, the engine may not start due to the lever being pushed.**

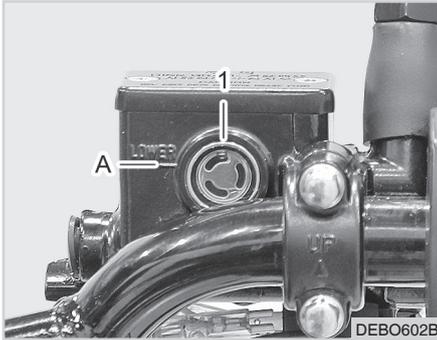
**Standard play**

10 - 20 mm

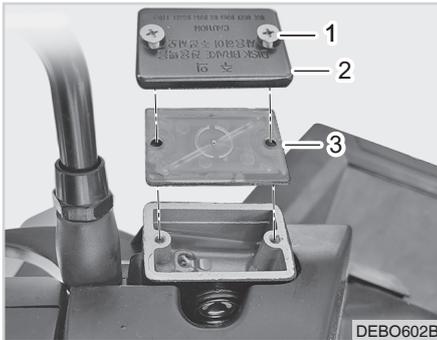
**⚠ CAUTION**

- **Significant brake play can lead to extended stopping distances, posing a danger as brakes may not function optimally, resulting in delayed reaction times.**
- **On the other hand, minimal play may shorten stopping distances, but it can have adverse effects on the brakes. It's crucial to adhere to the prescribed values for optimal performance and safety.**

## CHECKING AND ADDING BRAKE FLUID



(1) Master cylinder sight glass  
(A) Lower limit



(1) Screw                      (2) Master cylinder cover  
(3) Diaphragm

1. For inspection, raise the main stand on a level surface and set the handlebar in a straight-ahead position.
2. Verify that the fluid level in the master cylinder body, observed through the brake fluid sight glass on the front handlebar cover, is above the lower limit.
3. If the fluid level is low, unscrew the master cylinder cover, lift out the diaphragm, and replenish the brake fluid.
4. Reassembly follows the reverse of disassembly.



### CAUTION

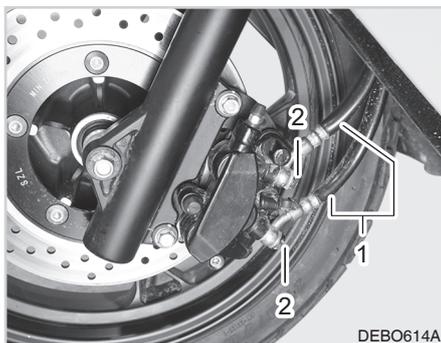
- Regularly check the brake hose for deterioration, aging, or potential rupture due to tire interference, as brake failure could result in a collision causing severe injury or death.
- Always use the specified brake fluid and avoid mixing different types.



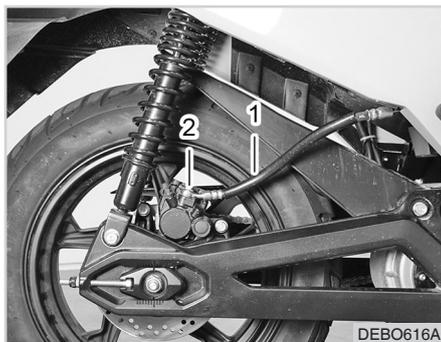
### CAUTION

- Low brake fluid levels can result in reduced braking power, which can lead to an accident.
- When inspecting the brake fluid, also assess the check on the front and rear brake pads.

## CHECKING THE BRAKE HOSES



(1) Brake hoses (front)      (2) Bolts

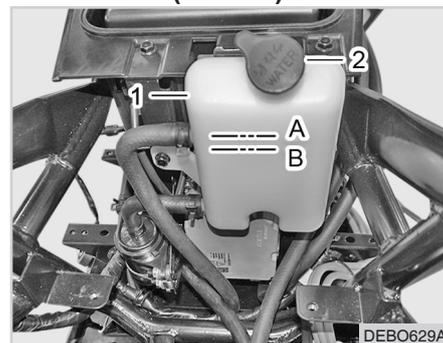


(1) Brake hose (rear)      (2) Bolt

1. Check the brake hoses for oil leaks.
2. If it leaks, take it to an authorized service center for inspection.
3. Ensure that the hoses do not come into contact with other components when maneuvering the handlebar from side to side or when experiencing vibrations while driving.
4. Aged rubber tends to soften and become more prone to breakage. We recommend checking for elasticity and cracks and considering replacement with a new one.

- Brake hose
- Caliper seal
- Master cylinder

## CHECKING AND ADDING COOLANT (GS100)



(1) Coolant reservoir      (2) Cap  
(A) Upper limit      (B) Lower limit

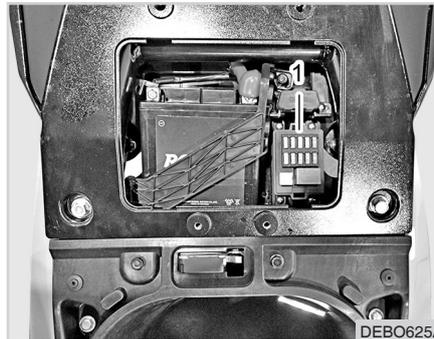
1. Raise the main stand and stand the vehicle upright.
2. Check the coolant level and if it is below the lower limit, open the filler cap and add coolant.

Coolant capacity	
Fresh clean water with anti-freeze (ethylene glycol) (50:50)	0.72 L ~ 0.75 L

## CHECKING AND REPLACING THE FUSES

### WARNING

- Do not open the rubber cap on the coolant reservoir while it is hot.



(1) Fuse box

### [GS100]

FUSE FULLER	20A	DC RELAY VCU VCC	5A	CLUSTER TELEMATICS BLACK BOX
	5A	VCU TURN	5A	TAIL LAMP HORN FR POSITION USB. PORT DIAG. TOOL
DC-DC RELAY	5A	BATT. LATCH BATT. LAMP SEAT LATCH SEAT LAMP KEY CONTOR. (TELEMATICS)	20A	SPARE
	5A	EWP	5A	SPARE
	2A	HEAD LAMP	2A	SPARE

DEBO621A

### [GS100 LITE/PLUG-IN]

FUSE PULLER	20A	DC RELAY VCU VCC	5A	BLACK BOX USB PORT DIAG.TOOL
	5A	VCU TURN	5A	TAIL LAMP HORN FR POSI.
DC-DC RELAY	2A	KEY BOX TELEMATICS	20A	SPARE
	2A	CLUSTER	5A	SPARE
	2A	HEAD LAMP	2A	SPARE

GS10608A

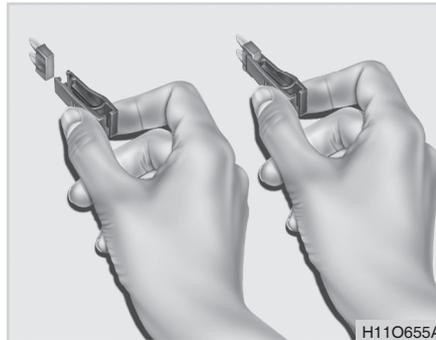
Fuses protect the vehicle's electrical system from potential damage.

A blown fuse indicates that there is an overload or short somewhere in the electrical system.

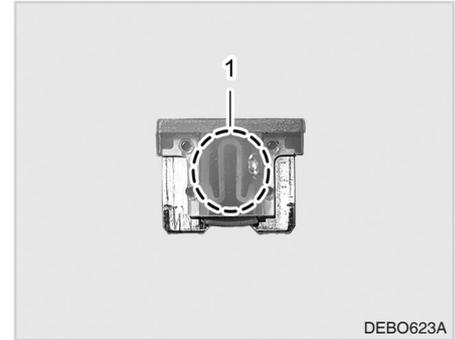
The fuse box is located under the passenger seat.

There are marks for the fuse capacity and location on the decal in the fuse box. Replace the fuse according to the following procedure:

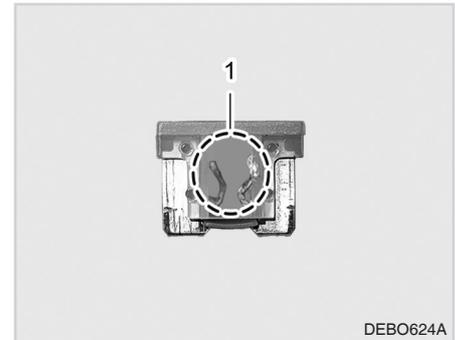
1. Turn the ignition switch to the "OFF" position and turn off all the electrical devices.
2. Open the fuse box cover and check the fuse in question using fuse tongs.



3. If the fuse is blown, replace it with a new fuse with same capacity. Make sure it is firmly installed.
4. Install the fuse box cover.



(1) Normal fuse



(1) Blown fuse

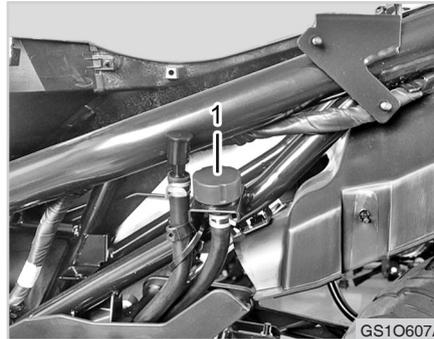
## CHANGE MOTOR OIL

### WARNING

- *Never use a fuse with the capacity higher than specified on the fuse box cover.*
- *If using a faulty fuse, steel wire, or foil, the electrical device can be damaged or even can catch a fire.*

### NOTE

- If the replaced fuse is blown soon, it is probable that the wiring system is faulty. Contact your service center.
- If the relay or other electric component is defective, contact your service center.



(1) Motor oil filler inlet

Refer to the maintenance schedule for guidance on when to check and change your motor oil. Visit your local service center to have your motor oil level checked and changed according to the recommended intervals.

MEMO

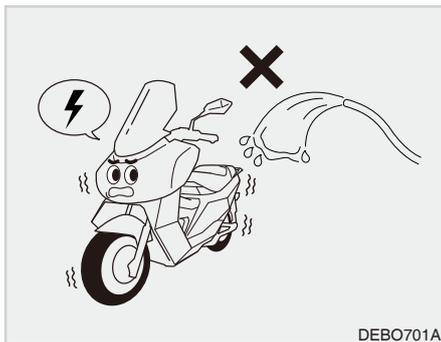


## *STORAGE AND DISPOSAL*

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WHILE ON STORAGE .....	7-2
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<b>USING AND DISPOSING OF AN ELECTRIC SCOOTER ...</b>	<b>7-4</b>

# 7

## VEHICLE STORAGE BEFORE STORAGE



For prolonged vehicle use, conduct essential maintenance and ensure it functions properly before storing it.

1. Avoid flushing electrical components like batteries, as water entry can lead to short circuits and other malfunctions.
2. Decontaminate with a damp sponge or soft cloth. Then, remove moisture with a dry cloth.

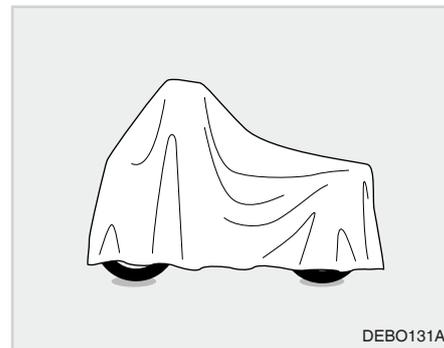
### CAUTION

- Cleaning with strong alcoholic solutions may damage or discolor lamps and plastic parts.

### DANGER: Electric shock risk

- This vehicle is equipped with high-voltage batteries, and spraying them with water can lead to electric shock, posing a risk of injury or death.

## WHILE ON STORAGE

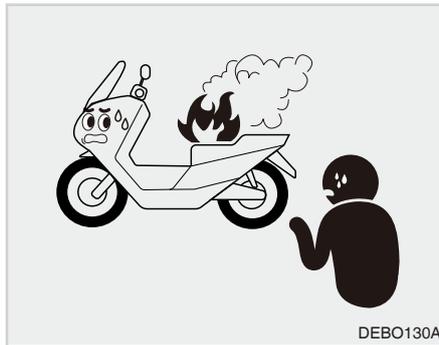


1. Store your electric scooter indoors in a dry environment whenever possible.
2. If it is unavoidable to keep it outside, cover it.

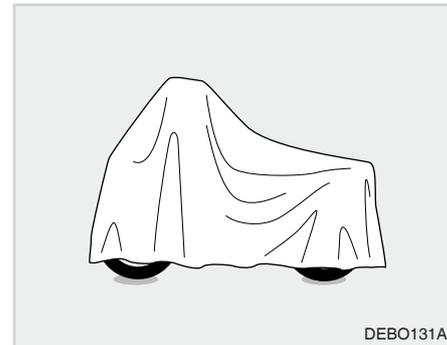
### CAUTION

- When putting the cover on, ensure that the motor has cooled down.

3. For long-term storage, remove the batteries and apply wax to each part.
4. For extended vehicle storage (over one month), if the charge of both the drive and auxiliary batteries is 50% or less, charge them to 90% for safety. Remove the drive batteries and store the auxiliary battery with its connection terminals detached.
5. Regularly monitor the battery charge, and if it falls below 20%, charge it immediately.
6. Store the battery in a dark, well-ventilated area.



7. In the event of a vehicle fire, immediately evacuate to a safe area. If you observe a fire, promptly contact the authorities and keep a safe distance from the area.



8. For long-term storage, remove the auxiliary battery and cover the vehicle.

**CAUTION**

- The vehicle can be contaminated and its lifespan can be shortened.

## **AFTER STORAGE**

When using the vehicle after long-term storage, follow the procedures below:

1. If you have stored the batteries for more than one month, ensure to charge them before use.
2. Start and warm up the motor sufficiently, then check all parts thoroughly before use.

## **USING AND DISPOSING OF AN ELECTRIC SCOOTER**

In order to protect the environment, use and dispose of the vehicle keeping the following in mind:

Never leave or discard an expired vehicle; contact your local service center to dispose of it according to regulations.

**TROUBLESHOOTING THE ELECTRIC SCOOTER..... 8-2**

## TROUBLESHOOTING THE ELECTRIC SCOOTER

This troubleshooting chart summarizes simple service items for users who are familiar with vehicles. For more complex and detailed maintenance, consult your service center.

Cause		Actions
1. The entire vehicle is out of power.	• Protection by Battery Management System (BMS)	<ul style="list-style-type: none"> <li>• Check for a short circuit and turn the power back on after 10 minutes.</li> <li>• Replace the batteries if the symptom persists.</li> </ul>
	• Defective smart key (GS100)	<ul style="list-style-type: none"> <li>• Check the smart key recognition at the main switch.</li> <li>• Use the insert key (physical key).</li> <li>• Replace the key battery.</li> </ul>
	• Auxiliary battery voltage is low	<ul style="list-style-type: none"> <li>• Turn the power back on after charging the auxiliary battery.</li> <li>• Replace auxiliary battery in case of repeated failure.</li> </ul>
2. The vehicle won't start when turning the throttle grip.	• Lowered side stand (GS100)	<ul style="list-style-type: none"> <li>• Raise the side stand.</li> <li>• If the failure still occurs, please visit a service center for repair.</li> </ul>
	• READY indicator OFF as the READY button is not pressed	<ul style="list-style-type: none"> <li>• Press the READY button.</li> <li>• Check the startup conditions.</li> </ul>
	• Low battery SOC	<ul style="list-style-type: none"> <li>• Charge the battery.</li> </ul>
	• Brake lever not returned	<ul style="list-style-type: none"> <li>• Lubricate the lever contacts and return it to the correct position.</li> </ul>
3. The vehicle exhibits slow driving speed, and the driving distance on a 100% charged battery is limited.	• Low battery SOC	<ul style="list-style-type: none"> <li>• Charge the battery.</li> </ul>
	• Low tire inflation pressure	<ul style="list-style-type: none"> <li>• Adjust the tire pressure to the specified value.</li> </ul>
	• Deteriorated battery	<ul style="list-style-type: none"> <li>• Replace the battery.</li> </ul>

Cause		Actions
4. The brake indicator won't illuminate.	<ul style="list-style-type: none"> <li>• Faulty brake switch</li> </ul>	<ul style="list-style-type: none"> <li>• Check the brake switch.</li> <li>• After checking the switch, replace the switch if necessary.</li> </ul>
5. The battery won't charge.	<ul style="list-style-type: none"> <li>• Poor contact of the charger power socket</li> </ul>	<ul style="list-style-type: none"> <li>• Verify that the power socket is inserted correctly.</li> </ul>
	<ul style="list-style-type: none"> <li>• Deteriorated or defective battery</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the battery.</li> </ul>
6. A noise is generated when the brakes are applied.	<ul style="list-style-type: none"> <li>• Worn brake pads</li> </ul>	<ul style="list-style-type: none"> <li>• Replace the brake pads.</li> </ul>
7. The headlamp and tail lamps do not illuminate.	<ul style="list-style-type: none"> <li>• Loose or disconnected battery cable</li> </ul>	<ul style="list-style-type: none"> <li>• Verified that the battery cable is fitted firmly.</li> </ul>

※ If you have any questions, please contact our service center.

MEMO



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# *APPENDIX*

**WARRANTY STATEMENT**

**END USER TRAINING CERTIFICATE**

**PDI CHECK SHEET**

**CONSENT TO COLLECTION AND USE OF PERSONAL  
INFORMATION (FOR RETAILER)**



## WARRANTY STATEMENT

**We provide a guarantee for the products produced and sold by our company as follows:**

### **1. Warranty details**

We will repair, free of charge, any parts of products produced and sold by us that are recognized to have failed under normal use and proper maintenance due to defects in material or workmanship within the warranty period. (This free repair service is referred to as a warranty repair.) Warranty repairs may involve part replacement or repair, with the replaced nonconforming parts becoming the property of Daedong Mobility.

### **2. Warranty Coverage Items**

#### **(1) Parts only for electric scooters**

2 years or 20,000 km	1 year or 10,000 km	REMARKS
Drive motor		
MCU (Motor Control Unit)		
DC-DC converter	Charger	
Battery pack		

**(2) General parts**

<b>ITEM</b>	<b>2 years or 20,000 km</b>	<b>1 year or 10,000 km</b>	<b>WARRANTY EXCLUSIONS</b>
<b>ELECTRIC SYSTEM</b>	SPEEDOMETER		
	TURN SIGNAL RELAY		
	WIRING HARNESS	HEADLAMP	CONSUMABLE PARTS
	TAIL LAMP	HORN	
<b>BODY</b>	TURN SIGNAL LAMP		
	SWITCHES		
	STEERING STEM	WHEELS, HANDLE-BAR	TIRES
	MASTER CYLINDER	SEAT, REARVIEW MIRRORS	ACCESSORIES
<b>BODY</b>	FRONT FORK	FRONT/REAR CALIPERS	BRAKE PAD
	REAR SHOCK ABSORBER		BRAKE DISC
	FRAME	BRAKE LEVER	CABLES
		COVERS	CONSUMABLE PARTS

[Note] ① 2-Year/20,000 km Warranty Coverage: Valid for 2 years from the purchase date or until the vehicle reaches 20,000 km, whichever occurs first.

② 1-year/10,000 km Warranty Coverage: Valid for 1 year from the purchase date or until the vehicle reaches 10,000 km, whichever occurs first.

### 3. Cases not covered by warranty

Even if within the warranty period, the following cases are not covered by the warranty.

- (1) Failures caused by neglecting to perform periodic maintenance or replace specified periodic replacement parts, as outlined by daedong mobility.
- (2) Failures caused by repairs conducted by shops other than authorized service centers
- (3) Failures due to the use of non-genuine parts not specified by daedong mobility
- (4) Failures resulting from modifications or alterations that are recognized to potentially affect the performance of the product. (Modifications to the motor or battery pack, changes to the height of the vehicle, changes to the overall length and lamps, changes to tire specifications, etc.)
- (5) Failures caused by driver's inexperience or mishandling
- (6) Failures caused by accidents and their impacts
- (7) Failure caused by severe abuse, such as racing, or riding where motorcycles are not normally driven
- (8) Failures due to natural disasters and fires
- (9) Sensory anomalies that are recognized as having no general quality and functional impact (light noise, vibrations, etc.)
- (10) If it is difficult to check the mileage (due to tampering, damage, etc.)
- (11) Poor condition caused by the passage of time, natural fading of paint and plating, etc.
- (12) Failures resulting from exceeding the specification limits set by Daedong Mobility. (Passenger capacity, load, motor revs, speed, etc.)

- (13) Failure due to external factors such as soot, chemicals, foreign substances, salt, acid rain, metal dust, etc.
- (14) Replacement and replenishment costs for consumable parts and oils (brake discs, bolts, nuts, washers, cables, fuses, rubbers, etc.)
- (15) Cost of inconvenience and losses caused by the inability to operate products. (Phone bills, towing costs, rental car costs, travel costs, transportation costs, losses due to inability to operate, etc.)

#### **4. Separate special warranty**

Tires are warranted by the manufacturer, not by us; however, we will provide our full support and co-operation in dealing with any tire-related issues.

#### **5. Customer compliance**

For safe and optimal operation of the product, adherence to proper usage, inspection, and maintenance is essential. Non-compliance with the following guidelines will void eligibility for warranty repairs:

- (1) Adhere to the instructions provided in the User's Manual.
- (2) Perform pre-operation inspections.
- (3) Undertake regular inspections and maintenance as prescribed by the Company.
- (4) Use only genuine parts and oils for scheduled replacements.

#### **6. Retention period of parts**

The Company will maintain a stock of service parts for its products for 7 years from their manufacturing date. Please note that the discontinuation of production for any part can occur without prior notice, depending on the Company's circumstances.

## 7. Warranty coverage

This warranty can be guaranteed on the same standards in Korea and overseas.

## 8. Warranty repairs

To avail warranty service, kindly bring this manual to your dealer or authorized service center and apply for the required service. You will then receive a thorough and precise inspection/maintenance.

## 9. Enforcement of warranty

This warranty will take effect once the purchaser completes the required information about the product produced and sold by the Company and signs and seals the document.

## 10. Warranty transferability

If you transfer ownership within the warranty period, you may be entitled to inherit the warranty for the remaining period only.

- ※ We only guarantee what is explicitly stated in this warranty statement, and any differences in interpretation will be resolved according to our judgment.
- ※ Product specifications are subject to change without notice for quality improvement.



**daedong mobility**





## END USER TRAINING CERTIFICATE

FOR RETAILER

Thank you for choosing daedong mobility products.

Please complete the form enclosed in the bold box of this training certificate at the time of purchase. This will serve as proof of the training you've received for the safe and proper handling of our products and will be essential for future service purposes.

※ It is crucial to register the contents of this certificate in our customer management system to ensure adequate after-sales service.

User	Name		Date of birth				
	Address		Tel:				
	Model	Product number	Date of purchase				
	Product used before this product	• Manufacturer: • Year of purchase:	• Product name: • Current condition: disposed ( ), Sold ( )	• Model name : • Possession of other products:			
Trainer	Organization	Name		Training location			
Training topics	Description	Verification	Remark	Training topics	Description	Verification	Remark
Training on the operation of each function	Guidelines for starting, driving, and stopping the vehicle			Safety precautions training	Precautions while driving		
	Left and right handle switch operation method				Precautions when parking and stopping		
	Actions to take for each warning lamp				Precautions when handling high voltage batteries		
	Instructions for charging batteries				Measures to be taken in case of problems during operation		
	Description of optional features and using method (black box)			Quality Assurance	Quality assurance guide		
	Safety features description (side stand, battery, seat cover)				Quality assurance exceptions guide		
Training on Periodic Maintenance details	Daily check method			Guide	Precautions for handling		
	Check and replacement of consumables				How to use the Owner's Manual		
	Check method for electrical system problems				Payment part guide		
Storage	Precautions before and after use and long-term storage				How to use the app		

I confirm that I have received thorough training in the operation of the vehicle as outlined above.

Month      Day      Year      User:      (Signature)



※ Please make sure to write the consumer's name and seal in your own handwriting and submit it to our company.





# END USER TRAINING CERTIFICATE

FOR USER

Thank you for choosing daedong mobility products.

Please complete the form enclosed in the bold box of this training certificate at the time of purchase. This will serve as proof of the training you've received for the safe and proper handling of our products and will be essential for future service purposes.

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User	Name		Date of birth				
	Address		Tel:				
	Model	Product number	Date of purchase				
	Product used before this product	• Manufacturer: • Year of purchase:	• Product name: • Current condition: disposed ( ) , Sold ( )	• Model name : • Possession of other products:			
Trainer	Organization	Name		Training location			
Training topics	Description	Verification	Remark	Training topics	Description	Verification	Remark
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	Check and replacement of consumables				How to use the Owner's Manual		
	Check method for electrical system problems				Payment part guide		
Storage	Precautions before and after use and long-term storage				How to use the app		

I confirm that I have received thorough training in the operation of the vehicle as outlined above.

Month

Day

Year

User:

(Signature)



**daedong mobility**

※ Please make sure to write the consumer's name and seal in your own handwriting and submit it to our company.





# PDI CHECK SHEET

Dealer name			
Address		Phone number	
Model name		Vehicle number	

	Check Item	Normal	Abnormal	Others
General inspection	Visual inspection for leaks and water leaks			
	Visual inspection of the cover (gaps, contamination, misalignment, etc.)			
	Check the tightening of bolts and nuts			
	Check for damage/attachment alignment of various decals/stickers			
	Check operation of main stand and side stand			
	Check tires for scratches, wear, and air pressure			
	Check the rubber seal inside the battery compartment and the terminal silicone cover.			
	After removing the main battery (after 10 minutes), check the auxiliary battery voltage (9V) or higher			
	Check brake oil level			

	Check Item	Normal	Abnormal	Others
Operation inspection	Check the operating performance (Starter, suspension lever, etc.)			
	Check steering handle operation (vibration and noise)			
	Check the instrument panel, lights			
	Check switch operations			
	Check the operation of the key knob and the seat latch and battery latch.			
	Check chain tension and operating condition			
	Cumulative mileage must be less than 8 km			
	Check enclosed items	Check motorcycle manufacturing certificate, user manual		
2 keys (main key, auxiliary key)				

I hereby certify that the PDI inspection of the above electric motorcycle has been performed.

Month

Day

Year

Check by:

(Signature)



**daedong mobility**

대동 모빌리티

※ When receiving the vehicle, please fill out the above form and submit it to the manufacturer. Failure to do may result in disadvantages.





## CONSENT TO COLLECTION AND USE OF PERSONAL INFORMATION(FOR RETAILER)

You must complete the warranty registration and return it to the dealer where you purchased the product to be eligible for warranty repairs.

1. Purpose of collecting and using personal information
  - Warranty processing for A/S service
  - Product A/S service satisfaction surveys and customer care
  - Marketing: for providing information about events, products, trial opportunities, and conducting surveys
2. Personal information details for collection
  - Required: Full name, email address, date of birth, address, and cell phone number, vehicle information (model, registration date, VIN)
  - Optional: gender, phone number, usage
3. Retention and use period of personal information
  - Records of service provision: 10 years after termination of service
  - Record of customer satisfaction surveys: 10 years
  - Records on customer care (consumer complaints and dispute resolution): 5 years
  - Information for marketing purposes: 5 years from the date of collection

You have the right to refuse consent to the collection of personal information. However, refusing consent to the collection of required information may limit warranty processing. Additionally, refusing consent to the collection of optional information may limit providing services such as event and product information.

(Mandatory items) I consent to Daedong Mobility to provide my personal information as above.  I agree  I disagree

(Optional items) I consent to Daedong Mobility to provide my personal information as above.  I agree  I disagree

Month

Day

Year

Name:



