

Owner's manual







# **Owner's Manual**



Nipponia S.A.

INTRODUCTION

Thank you for purchasing the NIPPONIA VOLTY. This model is designed for safety, built for durability and perfected for daily street use.

The superior vehicle design and built-in technology will meet your expectations for an economical and eco-friendly lifestyle.

This Owner's manual contains basic instructions on how to operate, inspect and maintain your scooter. Please read it carefully and thoroughly. Correctly operating, maintaining and repairing your scooter will minimize any possible risks and result in its best performance.

The authorized Nipponia service points will be glad to provide you with more detailed instructions.

### IMPORTANT MANUAL INFORMATION

Important information contained in this manual is marked using the following symbols:

**⚠** WARNING

Important information or instructions. Failure to follow these instructions may result in heavy damage to your scooter, serious injury or even death.

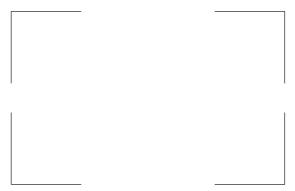
CAUTION

Important information or instructions. Failure to follow these instructions may result in damage to your scooter or minor injury.

### **CAUTION**

- This manual is an integral part of the scooter and must always accompany it, even in the event of a resale.
- If you have any questions concerning the contents of this manual or need further information regarding the operation of your scooter, do not hesitate to contact your local Nipponia dealer.
- This booklet is compiled with the latest available information. However, due to constant improvements, modifications or alterations may be made without prior notification. Updated versions can be downloaded from the Nipponia website <a href="https://www.nipponia.com">www.nipponia.com</a>

Note: Product and specifications are subject to change without notice.



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## TABLE OF CONTENTS

### ΕN

INTRODUCTION	2	Pre-operation check list	27	'
IMPORTANT MANUAL INFORMATION	3	Activating the motor	28	١
TABLE OF CONTENTS	5	Acceleration	28	
SAFETY INFORMATION	6	Braking	29	9
DESCRIPTION OF THE VEHICLE	10	Parking	30	١
Side view	10	PERIODIC MAINTENANCE AND MINOR REPAIR	31	5
Controls and instruments	11	Tyres	31	
MAIN COMPONENTS	11	Tyre wear condition	32	
Main switch / steering lock	12	Rim and Tyre information	33	
Dashboard unit	13	Rims	33	
Handlebar switches – left	14	Brakes	34	
Handlebar switches – right	15	Brake pads	34	
Front brake lever	16	Brake fluid	35	
Rear brake lever	16	Lubricating the levers	37	
Seat	17	Main stand	38	
Power switch	18	Front fork	38	
Charger and charging socket	20	Steering	40	
Luggage box	21	Wheels bearings	40	
Front hook, helmet	22	Lighting	41	
Top case & rear carrier (optional)	22	TROUBLESHOOTING	42	
Side stand	23	CLEANING AND STORAGE	43	
BATTERY INFORMATION	24	Cleaning the vehicle	43	
Battery	24	Storage	45	
Battery storage	26	SPECIFICATIONS	46	
OPERATION AND DRIVING				
INSTRUCTIONS	27	CONSUMER INFORMATION	47	

Vehicle identification number (VIN)	47
WARRANTY INFORMATION	48
MAINTENANCE SCHEDULE	49
SERVICE PLAN	50
WIRING DIAGRAM	52
SPACE FOR NOTES	53

**SAFETY INFORMATION** 

ΕN

### Safe riding

- 1. Always perform the pre-operation inspection before driving.
- 2. The scooter should not be used by anyone who does not hold a valid driving license.
- 3. Many accidents involve motorcycles not seen by other drivers, so please pay attention to the following:
  - Wear brightly-coloured clothes.
  - Do not drive too close to other vehicles or in another driver's blind spot.
  - Avoid overtaking.
- 4. Always follow local traffic regulations.
  - Driving above the speed limit is the reason for many accidents. Driving speed must not exceed the limit specified by traffic regulations and allowed by road conditions.
  - Always signal when turning or changing lanes in order to attract the attention of the other drivers.
- 5. Never drive under the influence of alcohol or other drugs; it dramatically increases the risk of accidents.
- 6. Exercise special attention when driving over crossroads or parking area exits.
- 7. When driving you must hold the handlebars with both hands and place your feet on the footboard. The passenger should hold the handgrips or the driver and place his feet on the footrests.
- 8. This scooter is designed for on-road use only. It is not suitable for off-road use.

### **Protective clothing**

- 1. For your safety, the driver and passenger should both wear helmets. Use of additional safety apparel (gloves, glasses, protective wear) is recommended.
- 2. Do not wear loose clothing, as it may be caught by the handle levers, the kick starter or the wheels and could lead to an accident.

**SAFETY INFORMATION** 

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#### Vehicle modifications

Making any modifications to the scooter or replacing the original components can affect its performance and safety and/or render it illegal for use. Observe applicable laws and all national and local regulations concerning vehicle equipment. Additionally, such modifications will cancel the warranty.

### Loading

Adding accessories or cargo to your scooter can adversely affect stability and handling if the weight distribution of the scooter is changed. Use extra care when riding a scooter with extra load. Here are some general guidelines to follow when loading cargo or adding accessories to your scooter:

- 1. All accessories must be fastened securely on the vehicle in order to minimize vibration that could cause instability.
- 2. Any extra load should be placed as close to the gravity centre as possible and must be equally distributed on both sides of the scooter to avoid imbalance and instability.
- 3. The tyre pressure must be adapted to the weight of the load and road conditions.
- 4. Make sure that any extra load is securely attached to the vehicle to prevent it from falling and being lost.
- 5. Do not hang any load on the handlebars or the suspension.
- 6. The total weight of the driver, passenger, accessories and cargo must not exceed the maximum load limit of the scooter (150kg).

Maximum load: 150 kg

(Total weight of rider, passenger, cargo and accessories)

**SAFETY INFORMATION** 

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### **Accessories**

When installing accessories not approved by Nipponia, attention should be paid to the following points:

- 1. The installation of the accessories must not affect the suspension travel, the light position and the steering angle.
- 2. Avoid installing any accessories that could hinder your access to vehicle controls and movement of your hands and feet as it could impair your reaction in an emergency event.
- 3. Do not install a bulb with higher power than that specified. It could burn the fuse or cause problems to the electrical system due to low voltage.
- 4. Do not add a sidecar to the scooter.

### Serial number





## **DESCRIPTION OF THE VEHICLE**

### Side view

- Front wheel
- 2. Front disc brake
- 3. Front turn signal light
- 4. Headlight
- 5. Seat lock
- 6. Seat
- 7. Main Battery
- 7a Optional battery
- 8. Seat box
- 9. Taillight / brake light
- 10. Rear turn signal light
- 11. License plate light
- 12. Rear disc brake
- 13. Rear wheel
- 14. Main stand
- 15. Side stand



## **DESCRIPTION OF THE VEHICLE**

### **Controls and instruments**

- 16. Left handlebar switches
- 17. Rear brake lever
- 18. Dashboard unit
- 19. Right handlebar switches
- 20. Front brake lever
- 21. Throttle grip
- 22. Main switch



### MAIN SWITCH / STEERING LOCK

The main switch/steering lock controls the ignition and lighting systems and is also used to lock the steering wheel. The switch can be turned to the following positions:

#### ON

All electrical circuits are supplied with power and the motor is active. The key cannot be removed.

### OFF

The motor and the electrical system are off. The key can be removed.

### **Steering lock**

The steering is locked and cannot be turned, the motor and the electrical system are off and the key can be removed.

### Lock the steering

- 1. Turn the handlebar all the way to the left.
- 2. Press the key down and while pressing, turn to the steering lock position.
- 3. Remove the key.

### Unlock the steering

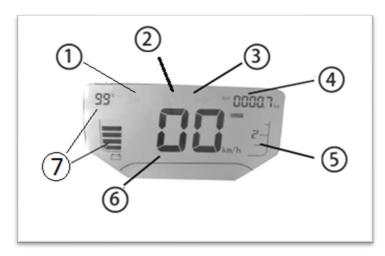
Press the key down and while pressing, turn to OFF position.

### **▲** WARNING

Never turn the key to OFF or LOCK position, while the vehicle is moving, otherwise the electrical system will be switched off, which may result in loss of control or an accident. Make sure that the vehicle is stopped before turning the key.



### DASHBOARD UNIT



### Left turn signal indicator lamp (1)

The left turn signal indicator lamp flashes whenever the turn signal switch is pushed to the left side.

### High beam indicator (2)

Indicates that the high beam switch is in ON position.

### Right turn signal indicator lamp (3)

The right turn signal indicator lamp flashes whenever the turn signal switch is pushed to the right side.

### Speedometer (6) and odometer (4)

The dashboard unit is equipped with a speedometer and an odometer. The speedometer shows the riding speed.

The odometer shows the total distance traveled and the trip distance is reset every time the main switch is turned off.

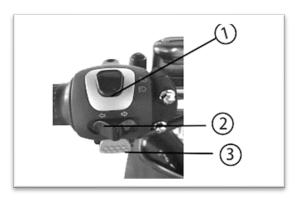
### Speed limit indicator (5)

Indicates the speed limit mode, for 25km/h (mode 1) or 45km/h (mode 2), respectively.

### **Battery level gauge (7)**

The battery level gauge indicates the power remaining before re-charging is required. The same is also indicated with a numerical value expressed in percentage form.

### **HANDLEBAR SWITCHES - LEFT**



- 1. High/Low beam switch 1.
- 2. Turn signal switch  $\langle \downarrow \downarrow \rangle$
- 3. Horn button

### High/Low beam switch (1)

Set the switch to position for the high beam. Set the switch to position to for the low beam.

### Turn signal switch (2)

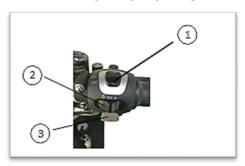
Push this switch to  $\diamondsuit$  position to signal a left-hand turn or to  $\diamondsuit$  position to signal a right-hand turn.

To turn-off the signal lights press the switch in the centre of the switch.

### Horn button (3)

Press the button to position to sound the horn.

### **HANDLEBAR SWITCHES - RIGHT**



- 1. Speed limit switch (ECO/FAST)
- 2. Light switch
- 3. Cruise control button

### Speed limit switch (ECO/ FAST) (1)

If you set the switch to "ECO" the maximum speed of the vehicle is limited to  $38 \, \text{km/h}$ .

If you set the switch to "FAST" the maximum speed of the vehicle will be 45 km/h.

The speed limit function is only applied on 45 km/h version.

### Light switch (2)

It has two positions: and and

Turn the light switch to this position to turn on the daytime running light, dashboard light and taillight.

Turn the light switch to this position to turn on the headlight.

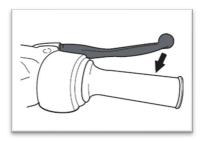
### Cruise control button (3)

This model is equipped with a cruise control system, designed to maintain a constant cruising speed. Press the cruise control button to activate cruise control functionality. Whenever the front or rear brake is applied, the cruise control function will be deactivated.

### **▲** WARNING

- Do not activate the cruise control button in heavy traffic or in bad weather conditions.
- Do not activate the cruise control button when travelling uphill or downhill.

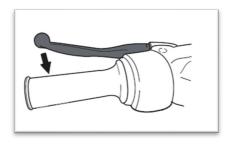
### FRONT BRAKE LEVER



The front brake lever is located on the right handlebar grip.

To apply the front brake, pull this lever towards the grip.

### **REAR BRAKE LEVER**



The rear brake lever is located on the left handlebar grip.

To apply the rear brake, pull this lever towards the grip.

### **SEAT**



To open the seat, set the vehicle on the side stand or the centre stand.

Then turn the key a quarter turn to the left.

### CAUTION

Do not press the key down when turning the key.

To close the seat, lower the seat and push the rear part of the seat until you hear a clicking sound. This indicates that the seat is locked.

### CAUTION

When you close the seat using force, parts may be damaged.

Always make sure that the seat is securely locked before driving or when you park the vehicle.

### **POWER SWITCH**

The power switch is installed in the luggage compartment of your vehicle. This switch can shut down the main power supply.

An auxiliary switch is located under the seat and is set in relation to the power switch setting.



### Positions of the power switch







If you want to activate the main battery (vertical arrangement), make sure that the sitch "A" is in ON position, then the switch "B" will be automatically turned to OFF position, see photo (1). The auxiliary switch must be turned to position "A".

If you want to activate the optional battery (horizontal arrangement), turn switch "B" to ON position. Switch "A" will be automatically turn to OFF position, see photo (2). The auxiliary switch must be turned to position "B".

If you want to turn off the power switch of the vehicle, set both switches to OFF position, see photo (3). The auxiliary switch must be turned to off position.

### CAUTION

If the electrical system is overloaded, the power switch will act as a circuit breaker to prevent any damage to your vehicle.

### **⚠** WARNING

If you do not set the auxiliary switch according to the instructions above, the dashboard will display wrong or flickering indication.

Note: Optional operation, for specific countries.

### **CHARGER AND CHARGING SOCKET**



With the vehicle you will also receive a charger to charge the battery of the vehicle.

If the battery level gauge on the dashboard unit drops below two dashes, recharge the vehicle as soon as possible.



The charging socket (2) is located at the front of the seat and is directly connected to the battery (main or optional, depending on the position of the power switch, see pg. 18).

### **LUGGAGE BOX**

The luggage box (1) is located under the seat. Its maximum loading capacity is 5kg. Inside the luggage box there is a combination switch (2) with a LED light and a USB socket. To turn on the light, press the red button. To use the USB socket, under the LED button, remove the USB cover.





(2)

(1)

### CAUTION

The luggage box is heated by the sun. Additionally, it is not entirely waterproof. Do not keep sensitive or valuable items inside the compartment.

### FRONT HOOK, HELMET



Use this hook to hang your helmet or light weight parts.

### CAUTION

Do not exceed the maximum load of 1kg for the front hook.

### **TOP CASE & REAR CARRIER (optional)**



An optional top case with rear carrier can be fitted on the scooter to store your helmet or other items.

### CAUTION

Do not exceed the maximum load of 5kg for the rear carrier.

### SIDE STAND



The side stand is located on the left side of the vehicle. Release the side stand by using your foot to step on the bracket of the side stand to set the vehicle in the upright position.

### CAUTION

The side stand retracts automatically when lifted. Make sure that your vehicle is stable enough when it is resting on the side stand.

Avoid using the side stand to park the vehicle on slope level or soft ground.

## **BATTERY INFORMATION**

### ΕN

### **BATTERY**

This model can carry two 60V 24AH Li-ion batteries. Only one battery is provided with your purchase of the scooter. An optional one can be used for extended range.

The battery is designed to be positioned either in vertical or in horizontal arrangement under the luggage box.

In order to reach the horizontal battery, you have to remove the vertical one and unscrew the orange bracket that holds both batteries in place (1).



### The battery can be charged in two ways:

- 1. Charge the battery directly by removing it from its compartment. Connect the charger to the battery and connect the charger to a 220V power outlet.
  - To unplug the battery from the charger, rotate the clamp and pull the plug out.
- 2. Plug the scooter directly, without removing the battery, by connecting the charger to the socket at the front of the seat.

### Charging the battery (ies)

- 1. Open the seat.
- 2. Remove the battery cover.
- 3. Set the switch 1 to ON, then automatically switch 2 will turn to OFF, if you want to charge the main battery (see page 17, picture 1) or set switch 1 to OFF and switch 2 to ON, if you want to charge the optional battery (see Page 17, picture 2).
- 4. Insert the power cord of the charger into the charging socket.
- 5. Insert the other side of the power cord of the charger into a wall outlet.
- 6. While charging, the indicator light on the socket is RED. When the charging is complete the indicator light will turn to GREEN.

### **BATTERY INFORMATION**

### CAUTION

- To avoid any damage to the battery, use only the charger provided with your electric scooter.
- Charge the battery frequently and avoid "Deep Discharge". For maximum battery life, keep the battery level between 20% and 80%.
- Charge the battery for 5-7 hours depending on the frequency of use. Daily charging is recommended to ensure your vehicle has full power and can be used at any time.
- Avoid using your electric scooter when the battery charge indicator is at one dash.
- The scooter includes a safe mode: as the battery discharges, the vehicle's maximum speed drops in order to help the driver reach his destination. With 9% of battery life remaining, the scooter's maximum speed will be reduced to 20km/h. It is recommended that you charge the battery before it runs into this reserve.
- The battery is sealed and is NOT user serviceable.

### **▲** WARNING

- If the battery overheats (e.g. after long distance), avoid charging it as soon as you arrive wait at least 15 minutes before connecting it to the charger.
- Li-ion battery can not be charged sufficiently below 0°C. When exposed to cold temperatures, the battery life and efficiency will be reduced by 20-25%. It will return to normal once it has warmed up.

**BATTERY INFORMATION** 

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#### **BATTERY STORAGE**

If you do not use your vehicle for a long time, set both power switches to OFF. During this time, the batteries need to be charged once every 3 months up to 60%.

### Storage time and ambient requirements

- Between -20°C and +40°C for a three-month storage period.
- Between -20°C and +25°C for storage periods up to one year.
- Humidity levels between 45 and 75%.

### **▲** WARNING

- Storing a battery that is out of charge may cause irreversible damage to the battery.
- Avoid contact with sparks, open flames, cigarettes, etc., and maintain enough ventilation when storing in a confined space.
- STORE ALL BATTERIES OUT OF REACH OF CHILDREN.

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## **OPERATION AND DRIVING INSTRUCTIONS**

### **Pre-operation inspection**

Always perform the pre-operation inspection, before driving your scooter.

It is important that pre-operation checks are carried out each time the vehicle is used. The procedure is simple and enhances the safety of the driver. Failure to do so, may result in vehicle damage or an accident.

If any item in the Pre-operation check list is not functioning properly, have it inspected and repaired before operating the vehicle. If you cannot correct or repair yourself, take the vehicle to your local dealer immediately.

#### PRE-OPERATION CHECK LIST

CHECKPOINT	INSPECTION
Throttle grip	<ul> <li>Make sure that the operation is smooth. It should be able to turn smoothly and be fully opened and closed.</li> <li>If necessary, contact an authorized Nipponia service center.</li> </ul>
Wheels and tyres	<ul> <li>Check tyre condition and wear.</li> <li>Check for any potential damage to the wheels or tyres.</li> <li>Inspect the air pressure of the tyre and adjust if necessary.</li> </ul>
Brake levers	Make sure that operation is smooth.     Lubricate the lever joints if necessary.
Side stand	Make sure that operation is smooth.     Lubricate pivot if necessary.
Instruments, lights, signals and switches	Check operation.     If necessary, contact an authorized Nipponia service center.

Note: if you need assistance on how to perform any of the above -mentioned tasks, do not hesitate to contact an authorized Nipponia service center.

### **▲** WARNING

Before riding the vehicle, please make sure that you are fully familiar with all operating controls & their functions. Consult your local Nipponia dealer if you need more assistance.

#### **ACTIVATING THE MOTOR**

- 1. Turn the main switch to the ON position to activate the motor.
- 2. Push the vehicle off the main stand.
- 3. Keep at least one foot to the ground to support the scooter.
- 4. Adjust the rear-view mirrors.
- 5. Before taking off, turn on the signal light and make sure it is safe to go.

#### **ACCELERATION**

There is a function that can alternate between soft and hard acceleration.

### To set soft acceleration:

- 1. Hold the left brake lever when the scooter is powered off.
- 2. Turn the ignition key on, meanwhile keeping the left brake lever pressed.
- 3. Rotate the throttle grip all the way 5 times in 5 seconds, while keeping the left brake lever pressed.
- 4. Release brake lever. Soft acceleration has been set.

#### To set hard acceleration:

While in soft acceleration mode, rotate the throttle grip fully 6 times and VOLTY will revert to hard acceleration mode.

## **OPERATION AND DRIVING INSTRUCTIONS**

### **BRAKING**

When you need to brake:

- 1. Close the throttle completely.
- 2. Apply both front and rear brakes simultaneously while gradually increasing the pressure.

#### **FRONT**



### **REAR**



### **⚠** WARNING

- Avoid braking while turning, otherwise the vehicle may skid or fall.
- When driving on a wet or slippery road the braking distance is longer than usual. Reduce the driving speed and brake in advance or you may lose balance and fall.
- Braking is more difficult on a wet road or on a downhill. Use both brakes alternatively, maintaining a low speed.

### ΕN

### **OPERATION AND DRIVING INSTRUCTIONS**

### **PARKING**

When parking:

- 1. Switch on the turn signal light in advance and check for approaching vehicles.
- 2. Close the throttle grip and apply the brakes slowly, so the brake light will turn on and warn vehicles from behind.
- 3. When the vehicle stops, switch off the turn signal light.
- 4. Turn the main switch to OFF position to turn off the motor.
- Rest the scooter on the main stand.
- 6. To prevent from theft, always lock the steering when parking and remove the key from the main switch.

### **▲** WARNING

- Park the scooter on a flat and stable surface to prevent it from falling.
- When you park on a slope, position the scooter facing upwards to prevent it from falling.
- Avoid parking on a slope or soft ground, as the vehicle may fall.

### CAUTION

The condition and the good operation of your scooter depends on how frequently you perform the correct maintenance, periodic inspection, adjustment and lubrication. The following instructions will help you to keep your vehicle in a good condition.

### **▲** WARNING

- If you are not familiar with the maintenance work, contact with your local Nipponia dealer.
- Maintenance, replacement or repair may be performed by an authorized Nipponia service point.
- Making any modifications to the scooter or replacing the original components can affect its performance and safety and even make it illegal for use. Modifications will also cancel the warranty.

PERIODIC MAINTENANCE AND MINOR REPAIR

EN

### **TYRES**

To maximize the performance, durability and safe operation of your vehicle, always check the tyre pressure. Cracks, damage and wear on the tyres cause unsteady steering or even tyre blow-out. Note that the tyre pressure is measured with cold tyres, ideally when the temperature of the tyres equals the ambient temperature.

### Tyre pressure

The tyre pressure must be checked and, if necessary, regulated before each ride, according to the following table:

Tyre pressure in cold state Front: 2.1 bar - 2.5 bar Rear: 2.1 bar - 2.5 bar

### **▲** WARNING

The tyre pressure must be adjusted in accordance with the riding condition (rider, passenger, cargo, accessories) and the road condition.

### PERIODIC MAINTENANCE AND MINOR REPAIR

### Tyre wear condition



Check the tread wear indicator (1) which is a triangle imprinted on the side of the tire. It points to a line of rubber that is built into the tyre that runs across the tread (2). If you notice this line is in the same level with the top of the tread grooves, you will need to replace the tire.

If you are not familiar to this, please ask your local Nipponia dealer to help you.

### **⚠** WARNING

- Do not overload your vehicle, since it will increase pressure on the tyres, affect braking and steering and may cause damage or even lead to an accident.
- Make sure that extra load is securely attached to the vehicle and distribute the weight evenly from side to side to prevent it from falling and being lost.

### **⚠** WARNING

- The tyres must be checked before each ride. If a tyre tread shows crosswise lines (minimum tread depth) or has a nail or glass fragments in it or if the sidewall is cracked, replace the tyre immediately.
- Have a dealer replace the tyres, especially the rear one as the electric motor is mounted on the rear wheel.

### EN

### PERIODIC MAINTENANCE AND MINOR REPAIR

### Rim and Tyre information

Rim and tyre dimensions are shown in the following table:

Front -> Rim: 2.15x12" Tyre: 90/70-12"

Rear -> Rim: 2.15x12" Tyre: 90/70-12"

Type: tubeless

#### Rims

The rims must be checked before each ride. If any damage is observed, then replace the rim immediately. Do not attempt even the minimum repair to the wheel. A deformed or cracked wheel must be replaced. Given the fact that the electric motor is mounted on the rear wheel, any damage, deformation or crack may be dangerous for the vehicle's balance.

### CAUTION

- The wheel should be balanced when the tyre or rim has been changed or replaced. An unbalanced wheel may result in poor performance, adverse handling characteristics and a shortened tyre life.
- After changing a tyre, drive at medium speeds until the tyre is broken-in, in order to get some traction.

#### **BRAKES**

The scooter is equipped with hydraulic disk type front and rear brake. Periodic maintenance and adjustment of the braking system should be performed to prevent accidents.

### Front/Rear brake

### CAUTION

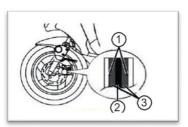
There should be no free play at the brake lever end. If there is free play, contact your Nipponia local dealer.

### **▲** WARNING

A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.

### **BRAKE PADS**

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart.



- 1. Wear indicator
- 2. Brake disc
- 3. Brake pad

### PERIODIC MAINTENANCE AND MINOR REPAIR

### Front and rear brake pads

Each front brake pad is provided with wear indicators, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the position of the wear indicators while applying the brake. If a brake pad has worn to the point that a wear indicator almost touches the brake disc, have a dealer replace the brake pads as a set.

#### **BRAKE FLUID**

### **▲** WARNING

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark (1) and refill it if necessary.



Low position brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage. When checking the fluid level, make sure that the top of the master cylinder is level by turning the handlebars. Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

# Recommended brake fluid: Brake Fluid DOT4

- It is suggested to use the same type of brake fluid. Mixing fluids may result is harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fuel immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a dealer check.

# Changing the brake fluid

# **▲** WARNING

Have a dealer change the brake fluid at the intervals specified in the note, after the periodic maintenance and lubrication chart.

# LUBRICATING THE FRONT AND REAR BRAKE LEVERS

The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

#### Front brake lever



# Rear brake lever



# PERIODIC MAINTENANCE AND MINOR REPAIR

#### **MAIN STAND**

# CAUTION

The operation of the main stand should be checked before each ride, and the pivots and metal-to-metal contact surfaces should be lubricated, if necessary.



# **▲** WARNING

If the main stand does not move up and down smoothly, have a dealer check or repair it.

#### **FRONT FORK**

The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

# EN

# PERIODIC MAINTENANCE AND MINOR REPAIR

# **▲** WARNING

Securely support the motorcycle so that there is no danger of it falling over.

- 1. Place the vehicle flat and upright.
- 2. Check the inner tubes for scratches, damage and oil leakage.
- 3. Apply the front brake and push the handlebars several times down hard to verify the suspension of the fork.



# **▲** WARNING

- When damage to the fork is noted, please contact your dealer.
- If you treat the telescopic fork with cleaning agents, make sure that they do not come into contact with the tyres or the brakes. This can lead to dangerous accidents.

# PERIODIC MAINTENANCE AND MINOR REPAIR

#### **STEERING**

#### **▲** WARNING

Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

- 1. Place the vehicle on the center stand/suitable motorcycle stand to raise the front wheel of the ground.
- 2. Hold the lower ends of the front fork legs and try to move them forward and backward.
- 3. If any free play can be felt, have a dealer check or repair the steering.

# WHEEL BEARINGS

The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart.

# CAUTION

If there is free play in the wheel hub or if the wheel does not turn smoothly, have a dealer check the wheel bearings.

# PERIODIC MAINTENANCE AND MINOR REPAIR

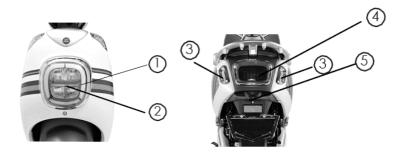
# **LIGHTING**

This model is equipped with a daytime running light (light circle) that is always on.

# **Headlight bulb**

This model is equipped with LED bulb headlight (1). If a headlight bulb burns out, have a dealer replace it. Adjust the headlight beam, if necessary.

# Dipped / beam headlights (2)



# Taillight, license light and indicators

If the turn signal light bulbs (3), the taillight (4) or license light (5) do not operate, replace the bulb or have a dealer check its electrical circuit.

**TROUBLESHOOTING** 

#### **TROUBLESHOOTING**

Although the vehicles receive a thorough inspection before shipment from the factory and again prior to delivery to you, trouble may occur during operation. However, should your vehicle require any repair, take it to a dealer, whose skilled technicians have the necessary tools, experience, and knowhow to service the vehicle properly.

Use only genuine replacement parts. Imitation parts may look like parts, but they are often inferior have a shorter service life and can lead to expensive repair bills.

# **CLEANING AND STORAGE**

#### **CLEANING THE VEHICLE**

Maintaining the vehicle clean, apart from keeping it attractive, will extend its lifespan and optimize performance.

### **Before cleaning**

Close all caps, covers, electrical connectors that are well install and water can be avoided to get into and remove the batteries, while you do the clean job.

#### **▲** WARNING

- Please take notice that all functions of your scooter are based on electricity. Failure to seal all appropriate components as described before washing can lead to serious damage.
- Avoid too much pressure while washing the rear wheel, as it includes the electric motor.

#### CAUTION

- Do not use acid-based cleaners. If such funds used for stubborn stains, so use this only occasionally, dry it immediately after and then apply a corrosion protection spray.
- Always follow the manufacturer 's instructions on care and cleaning agents.
- Use best only water and mild detergent or special cleaner from the dealer to the sensitive components of the vehicle to prevent damage. Dry the plastic parts then wipe with a soft, dry cloth or sponge.
- Protect particularly plastic parts, paint, headlight glass from harsh chemicals such as fuel, rust remover, brake cleaner or similar. The use of such agents may result in malfunction, damage and affect the security itself.
- Do not use a high-pressure washer or steam cleaner, causing water in storage can penetrate electrical components such as connectors or switches, lighting, and brake linings or damage, seals, paint and other surfaces.

# **CLEANING AND STORAGE**

EN

#### Cleaning after normal use

Remove dirt with warm water, a mild detergent, and a soft, clean sponge, and then rinse thoroughly with clean water. Use a toothbrush or bottlebrush for hard-to-reach areas.

### Cleaning after riding in the rain, near the sea or on salt-sprayed roads

# CAUTION

Since sea salt or salt sprayed on the roads during winter are extremely corrosive in combination with water, carry out the following steps after each ride.

- Clean the vehicle with warm water and a mild detergent.
- Do not use hot water, which increases the corrosive effect of the salt.
- Apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

# After cleaning

- · Dry the vehicle.
- · Wax all painted surfaces.

#### **▲** WARNING

- Make sure that there is no oil or wax on the brakes or tyres.
- If necessary, clean the brake discs and brake linings with a regular brake disc cleaner and wash the tyres with warm water and a mild detergent.
- Before operating the vehicle, test the braking performance and tyres.

**CLEANING AND STORAGE** 

EN

#### **STORAGE**

# Short-term (for a few days)

• Always store your vehicle in a cool, dry place and protect it against dust with a vehicle cover.

# **▲** WARNING

Store the vehicle in a will air flow room with dry air if possible. A place with humidity will cause rust.

# Long-term (for weeks)

- · Clean the vehicle.
- · Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side stand/ main stand.
- Check and, if necessary, correct the tyre air pressure, and then lift the vehicle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tyres from becoming degraded in one spot.
- If you do not use the vehicle for a long time, set both power switches to OFF position. Remove the batteries and store them in a dry place with temperatures between 25 and 45 degrees C for optimal function. During this time, the batteries need to be charged once every three months up to 60%.

SPECIFICATIONS

# **SPECIFICATIONS**

Motor	Hub-type, 1500W BOSCH®
Max. Range (1 battery)	55 km (64 km)
Maximum speed (km/h)	45 (25)
Maximum Torque	36 Nm @ 400 rpm (57 Nm @ 250 rpm)
Maximum Power	1.5 kW @ 400 rpm (1.54 kW @ 220 rpm)
Battery	Li-ion 60V/24Ah SUMSUNG® cells
Full Charge Time	5 hours
Seat height (mm)	750
Overall Size (LxWxH) mm	1800 x 730 x 1080
Maximum Load (kg)	150
Front/rear brake	DISC
Front/rear tyre	90/70-12
Wheelbase (mm)	1320
Weight (with 1 battery)	77 kg
Gradeability Capacity	15 degrees

# **CONSUMER INFORMATION**

# **VEHICLE IDENTIFICATION NUMBER (VIN)**

Please write down the VIN (vehicle identification number) to order spare parts or in case the vehicle is stolen.

The chassis number is stamped into the frame. To see this, take the cover (1) from the inner lining into the foot.



# CAUTION

To the vehicle identification number is used to identify your motorcycle and may be used to register your vehicle with the licensing authority in your area.

# **WARRANTY INFORMATION**

ΕN

Please read carefully the instruction manual of your vehicle before operating it in order to make yourself familiar with its handling. We explicitly point out that the instruction, maintenance, and care instructions given in the user's manual have to be complied with, in order to sustain your claims towards warranty. Only the strict compliance with the customer specifications stated in the user's manual ensures the prolonging of the natural life of your vehicle.

For more details regarding the warranty information you may visit www.volty.eu or www.nipponia.com.

# **MAINTENANCE SCHEDULE**

The Warranty can be granted only if the vehicle has been serviced in accordance with this maintenance schedule.

The inspection intervals are required, ot granted.	herwise, no warranty can be	300 km	Every 2000 km	Every 4000 km	Every 6000 km	Every 10000 km
PART	TO DO				_	
Common check (refer to page 26)	Inspect	I	I	I	I	I
Throttle and grip	Inspect / replace	I/R	I/R	I/R	I/R	I/R
Fittings, buttons and seals	Inspect / adjust	I/A	I/A	I/A	I/A	I/A
Front and rear brake pumps	Inspect	I	1	I	ı	I
Front and rear suspension system	Inspect	I		I		I
Wires and connectors	Inspect	I	1	I	ı	I
Bearing of front and rear wheels	Inspect / replace		1	R	ı	I
Tyre condition	Adjust / clean				A/C	A/C
Controller	Clean				С	С
Charger	Clean			С	С	С
Bearing of front fork	Adjust / clean				A/C	A/C
Brake assembly - Lubrication	Replace		R	R	R	R
Brake oil - Lubrication	Replace				R	
Suspending system - Lubrication	Inspect	I	1	I	ı	I
Battery terminal - Lubrication	Inspect				ı	I
Bearing of front fork - Lubrication	Inspect	1	1	I	ı	l l
A - ADJUST / C - CLEAN / I - INSPECT (Inspect or Clean or Lubricate or Replace, if necessary) / R - REPLACE						

SERVICE PLAN EN

The Warranty can be granted only if the vehicle has been serviced in accordance with this service plan.

300 km	2000 km
Stamp / Signature	Stamp / Signature
4000 km	6000 km
Stamp / Signature	Stamp / Signature

VEHICLE IDENTIFICATION NUMBER:	NAME OF THE CUSTOMER:
MODEL:	SIGNATURE OF THE CUSTOMER:

SERVICE PLAN

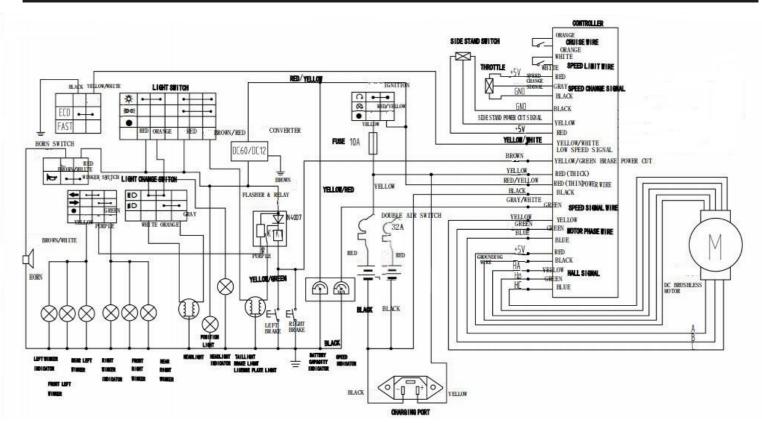
EN

The warranty can be granted only if the vehicle has been serviced in accordance with this service plan.

8000 km	10000 km
Stamp / Signature	Stamp / Signature
12000 km	14000 km
Stamp / Signature	Stamp / Signature

VEHICLE IDENTIFICATION NUMBER:	NAME OF THE CUSTOMER:
MODEL:	SIGNATURE OF THE CUSTOMER:

WIRING DIAGRAM EN



SPACE FOR NOTES	EN

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