



**NIPPONIA**

*Owner's manual*

***2FAST***

***4FAST***



**EN**

# Owner's Manual

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2FAST / 4FAST

**Nipponia S.A.**

Thank you for purchasing the **NIPPONIA 2FAST/4FAST** tricycle scooter. This model is designed for safety, built for comfort and space for daily shopping, the ride to work or other 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 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.

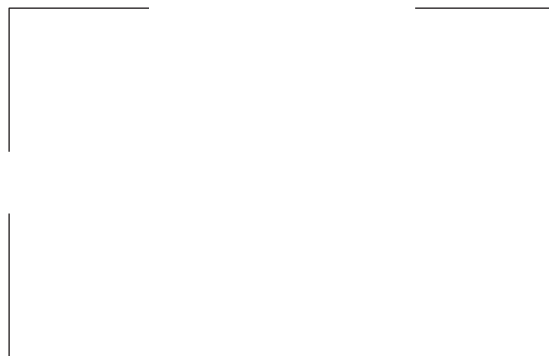
## CAUTION

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 [www.nipponia.com](http://www.nipponia.com)

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



Dealer label (stamp) here

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## 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.
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 should 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 or the wheels and could lead to an accident.

## 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, accessories and cargo must not exceed the maximum load limit of the scooter.

**Maximum load: 90-110 kg (2FAST, depending on battery type)**

**Maximum load: 130-144 kg (4FAST, depending on battery type)**

(Total weight of rider, cargo, and accessories)



## **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.

# DESCRIPTION OF THE VEHICLE

EN

Frame plate (depending on version)



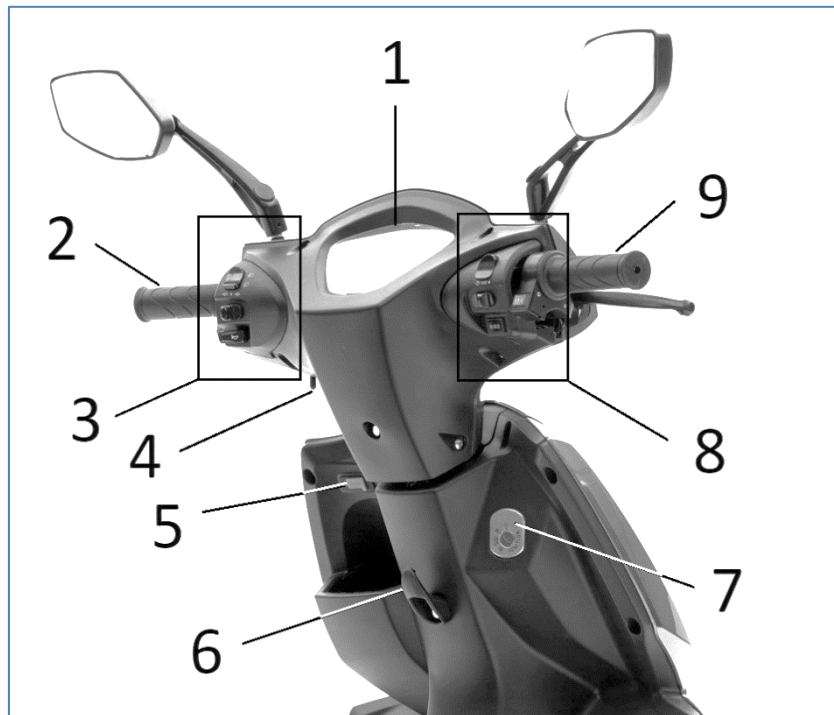
## Side view

1. Mirrors
2. Headlight
3. Front turn signal light
4. Front disc brake
5. Charging socket
6. Seat
7. Top box
8. Rear turn signal light
9. Taillight
10. License plate light
11. Rear reflector
12. Anti-tip wheels
13. Motor
14. VIN cap



## Controls and instruments

1. Dashboard unit
2. Left grip
3. Left handlebar switches
4. Parking lever
5. USB socket
6. Bag hook
7. Main switch
8. Right handlebar switches
9. Throttle grip



## 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

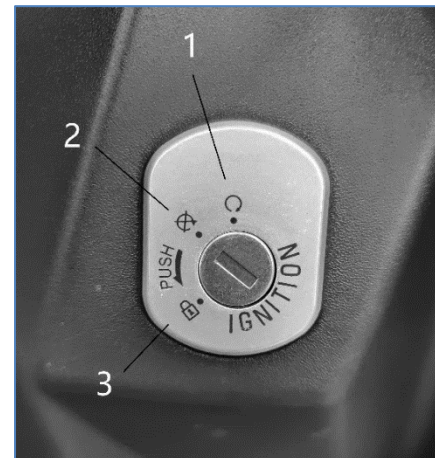
1. Turn the handlebar all the way to the left.
2. Press (push) the key down and while pressing, turn to the steering lock position.
3. Remove the key.

### Unlock the steering

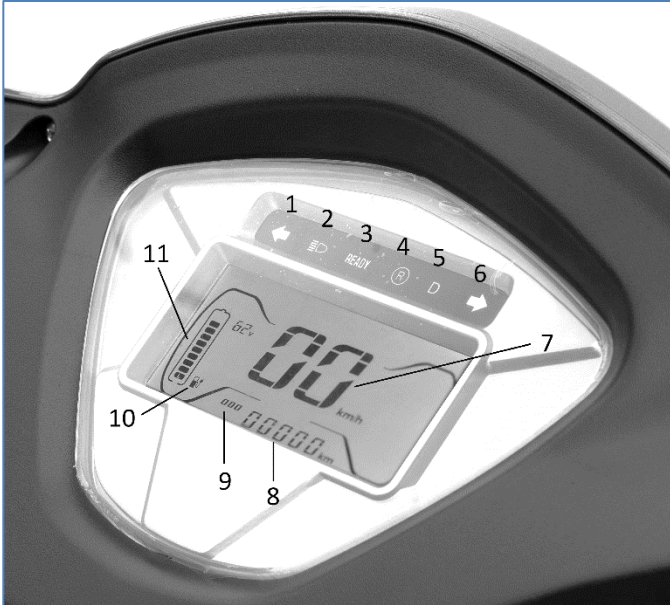
Press (push) the key down and while pressing, turn to OFF position.

### ⚠️ WARNING

Never turn the key to OFF or steering 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.

### READY indicator (3)

This indicator lights when you press the button on the right switch to release the engine to move forward.

### Reverse/Drive mode indicator (4, 5)

4: Reverse mode indicator

5: Drive mode (Forward) indicator

### Right turn signal indicator lamp (6)

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

## **Speedometer (7), odometer (8) and ODO indication (9)**

The dashboard unit is equipped with a speedometer and an odometer. The speedometer shows the riding speed. The odometer (ODO) shows the total distance traveled.

## **Battery charge indicator (10)**

This symbol lights when the battery is charging.

## **Battery level gauge (11)**

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





### Low/High beam switch (1)

Set the switch to position  for the high beam.


Set the switch to position  for the low beam.

### Turn signal switch (2)

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

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

### Horn button (3)

Press the button to  position to sound the horn.

### Parking lever (4)

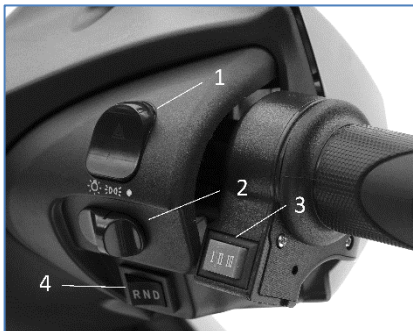
The parking lever is located under the left brake. It keeps the vehicle stationary when it is not operating.

To activate the parking lever, push the lever upwards while pressing the left brake. To deactivate, press only the left brake.





## HANDLEBAR SWITCHES - RIGHT



### 1. Hazard lights switch

When you press this switch the taillight is turned on and the operation of the throttle is cut-off.

### 2. Light switch

This switch can be set so that the headlight is always on or it functions as a light switch, depending on the version.

### 3. Max speed switch (depending on the version)

This 3-position switch is used to set the max speed on your vehicle. The symbols imprinted on the switch indicate different max speeds: “I”: is set for max speed about 10 km/h, “II”: is set for max speed about 20 km/h, “III”: is set for max speed about 25 km/h.

### 4. Reverse / Drive switch

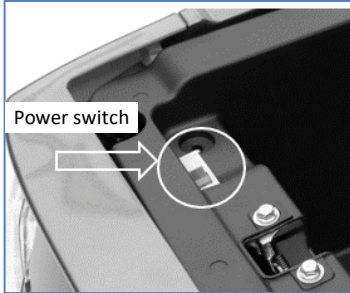
This 3-position switch is used to set the gear selection between the following modes:

**R** – for Reverse mode: When you set the reverse mode, you will hear a beeping sound.

**N** – for Neutral mode: When you set the neutral mode, the vehicle remains stationary.

**D** – for Drive mode.: When you set the drive mode, the vehicle moves forwards.

## POWER SWITCH



The power switch is installed under the seat area of your vehicle. This switch can shut down the main power supply.

It can be activated in ON position, if you want to activate the battery.

If you want to turn off the power switch of the vehicle, set the switch to OFF position.

### CAUTION

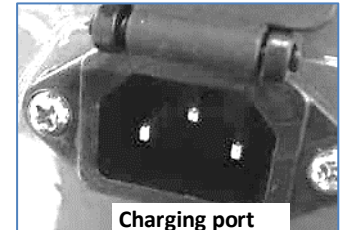
If the electrical system is overloaded, the power switch will act as a circuit breaker to prevent any damage to your vehicle.

## Charger and charging port

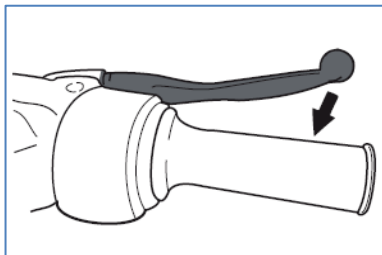


With your vehicle you will also receive a charger to charge the battery of the vehicle through the charging port. If the battery level indicator on the dashboard unit drops below two dashes, recharge your vehicle as soon as possible.

The charging port is located under the front part of the seat. Lift the lid of the charging port to charge your battery.



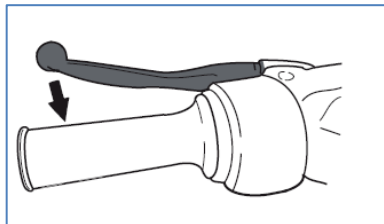
## FRONT BRAKE LEVER



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, use the lock at the rear side of the vehicle. Turn the key counterclockwise to open the seat and have access to the luggage compartment.

**CAUTION**

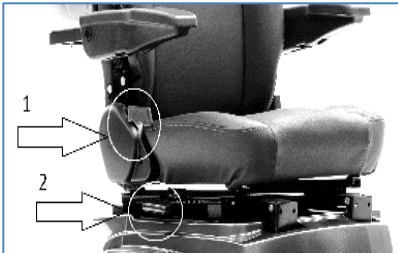
Do not press the key down when turning the key.

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.

## Seat adjustment



- (1) Seat-back angle adjustment
- (2) Horizontal position adjustment

You should be able to sit on the seat comfortably and press the handlebar switches/buttons and grip the handlebar without leaning forward.

- Pull or push the lever (1) to adjust the angle of the seat backrest to the preferable direction.
- Push the lever (2) forward or backwards to adjust the distance between the seat and the handlebar/control switches.

## Luggage box

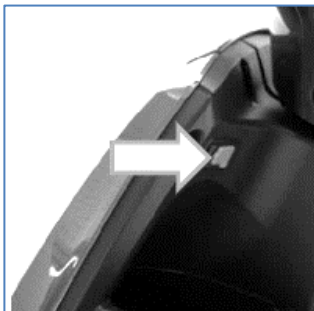


The luggage box (1) is located under the seat. Its maximum loading capacity is 5kg.

### 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.

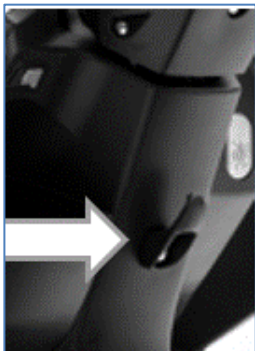
## USB socket



The USB socket is located on the left side of the vehicle.

Remove the USB cover to use it.

## Front hook



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

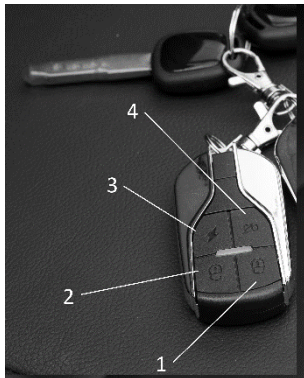


A top case is fitted on your vehicle to store your helmet or other items.

### CAUTION

Do not exceed the maximum load of 5 kg.

## Smart key (depending on the version)



### 1. LOCK

Press this button once to activate the alarm function. You will listen to 2 beeps. If you press twice then the alarm system starts ringing.

### 2. UNLOCK

Press this button once to deactivate the alarm system.

### 3. REMOTE START

Press this button to turn on the ignition switch. You will listen to 2 beeps. This function works in a range of 5 meters.

### 4. Audio finder

When you press this button the alarm detection system is activated. You will hear a beeping sound.

## **BATTERY**

This model can carry a 60V 20AH Li-ion battery or a 60V 20AH lead acid battery (depending on version). Only one battery is provided with the purchase of your scooter. An optional battery can be purchased for extended range. The battery is positioned under the luggage box.

### **Charging the battery**

- Connect the power cable of the charger to the charging socket.
- Connect the other side of the power cable of the charger to a 220V wall outlet.

While charging, the indicator light on the charger is RED. When the charging is complete the indicator light will turn to GREEN.

### **Charging the battery for the first time**

Connect the charger plug to the charging socket and then connect to a 220V power outlet.

Do a full 100% battery charge for the first time, checking the LED on the charger.

Repeat the same procedure at each charge. The battery will reach full capacity after 4-5 charges.

### **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, battery life and efficiency will be reduced by 20-25%. It will return to normal once it has warmed up.

## **BATTERY STORAGE**

If you do not use your vehicle for a long time, set the power switch to OFF position. During this time, the battery needs 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.**

## 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 it by yourself, take the vehicle to your local dealer immediately.

## PRE-OPERATION CHECK LIST

CHECKPOINT	INSPECTION
Throttle grip	<ul style="list-style-type: none"><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 style="list-style-type: none"><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	<ul style="list-style-type: none"><li>• Make sure that the operation is smooth.</li><li>• Lubricate the lever joints if necessary.</li></ul>
Instruments, lights, signals and switches	<ul style="list-style-type: none"><li>• Check operation.</li><li>• If necessary, contact an authorized Nipponia service center.</li></ul>

Note: if you need assistance with 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 and their functions. Consult your local Nipponia dealer if you need more assistance.

## ACTIVATING THE MOTOR

1. Ensure that the parking brake is off.
2. Set the R-N-D switch to N-mode.
3. Turn the main switch to the ON position to activate the motor. The Meter Display will turn on.
4. Adjust the rear-view mirrors.
5. Set your max speed via the 3-position switch (if available, depending on the version).
6. Set the R-N-D switch to D-mode.
7. Slowly rotate the throttle grip to move forward and put your feet on the footrest.
8. Before taking off, turn on the signal light and make sure it is safe to go. Your speed will be determined by the turn of the throttle and the set of the max speed.

## BRAKING

When you need to brake: 1. Close the throttle completely.

2. Apply both front and rear brakes simultaneously while gradually increasing the pressure.

### 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.

## 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. Set the R-N-D switch to N-mode.
5. Turn the main switch to OFF position to turn off the motor.
6. Activate the parking brake.
7. To prevent 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 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 to use. Modifications will also cancel the warranty.

## 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:

<p><b>Tyre pressure in cold state</b> <b>Front: 2.5 bar</b> <b>Rear: 2.5 bar</b></p>
----------------------------------------------------------------------------------------------

### **WARNING**

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

## Tyre wear condition -> ΦΩΤΟ



Check the tread wear indicator-TWI (1) 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 with 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.

## Rim and Tyre information

Rim and tyre dimensions are shown in the following table:

Front -> Rim: 2.15 x10'' Tyre: 3.00-10''
Rear -> Rim: 2.15 x10'' Tyre: 3.00-10''
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.

### 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 speed until the tyre is broken-in, in order to get some traction.

## BRAKES

The 4FAST scooter is equipped with hydraulic disk type front brake and rear drum brake or hydraulic disk type rear brakes (depending on the version). The 2FAST scooter is equipped with hydraulic disk type front brake and rear drum brakes. Periodic maintenance and adjustment of the braking system should be performed to prevent accidents.

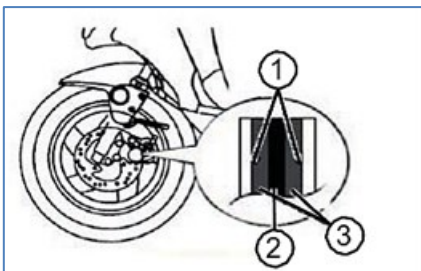
### Front brake

#### 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



## Front 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.

### Front Brake inspection

You should check the braking system for breakages and leaks before riding.

1. Depress the brake lever several times to determine whether there is a leak.
2. Check the wear condition of the brake pads.

## BRAKE FLUID



Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. The brake fluid level must be checked at the intervals specified in the periodic maintenance chart.

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 DOT3

## CAUTION

- It is suggested to use the same type of brake fluid. Mixing fluids may result in 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.

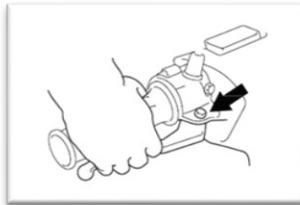
## Changing the brake fluid

**⚠ WARNING** Have a dealer change the brake fluid at the intervals specified in the periodic maintenance and lubrication chart.

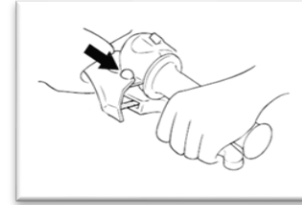
## Lubricating the levers

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**



## Rear drum brake

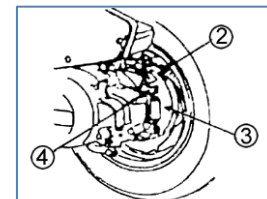
Check the free play of rear braking lever. The proper free play is about 10mm-20mm.

The brake lining of the drum brake can be worn after some use.

Frequently, scheduled inspections of the wear condition of brake lining must be carried out.

When pressure is applied to the lever, the indicator (4) moves to the sign (2) on the brake drum.

Holding the lever tightly, if the indicator aligns with sign, the brake lining is worn out and needs to be replaced as soon as possible.



2: Wear sign

3: Brake drum

4: Brace indicator

## FRONT FORK (for 2FAST model)

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

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

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

### 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.

## 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.

## 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.

## LIGHTING

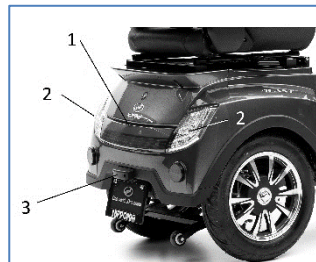
This model is equipped with a daytime running light (depending on the version).

### Headlight



This model is equipped with a LED headlight. If the headlight bulb burns out, have a dealer replace it.

### Taillight, license light and indicators



If the taillight (1), the turn signal light bulbs (2) or the license light (3) do not operate, replace the bulb or have a dealer check the electrical circuit.

## 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 know-how 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.

See below a few common cases:

No.	Trouble	Cause	Repair
1	Turn on ignition, no indication on dashboard	Power switch is in "OFF" position	Turn to "ON" position
		Loose battery wiring	Check wiring and tighten
		Battery is not charged.	Charge battery
		Dashboard malfunction.	Replace dashboard.
2	Indicator lamp functions but the electric motor does not start	Not sufficient battery charge	Recharge batteries
		Accelerator throttle loose, frayed or disconnected.	Take your motorcycle to an authorised workshop
		Wiring problem in circuit or charger malfunction.	Take your motorcycle to an authorised workshop
3	After charging, shortened travel distance	Tyres are under-inflated	Inflate the tyres to the recommended pressure
		Insufficient charging time	Recharge batteries
		Charger problem	Contact dealer
		Battery age or deterioration	Replace battery

## 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 installed, so water can be avoided getting into.

Remove the battery while you do the cleaning 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 are used for stubborn stains, 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 to penetrate electrical components such as connectors or switches, lighting, and brake linings or damage, seals, paint and other surfaces.

## **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.

## 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 well 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 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°C and 45°C for optimal function. During this time, the batteries need to be charged once every three months up to 60%.



# SPECIFICATIONS

EN

<b>SPECIFICATIONS</b>	<b>2FAST</b>	<b>4FAST</b>
Motor	1000W	1000W
Max. Range	40 km	40 km
Maximum speed (km/h)	25	25
Maximum Torque	150 Nm @ 270 rpm	150 Nm @ 270 rpm
Battery type	Lead acid or Li-ion 60V-20Ah	Lead acid or Li-ion 60V-20Ah
Full Charge Time	6.5 hours	6.5 hours
Seat height (mm)	750	750
Overall Size (LxWxH) mm	1620 x 720 x 1240	1620 x 690 x 1210
Maximum Load	90-110 kg (depending on battery type)	130-144 kg (depending on battery type)
Front/rear brake	Disc / Drum	Disc / Drum or Disc/Disc (depending on the version)
Front/rear tyre	3.00-10''	3.00-10''
Wheelbase (mm)	1060	1070
Net Weight	75 kg	99 kg
Gradeability Capacity	8%	8%
LED Lights	LED headlight	LED headlight
USB port	YES	YES

## VEHICLE IDENTIFICATION NUMBER (VIN)

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

VIN is stamped on the main front tube of the frame. To see the VIN, remove the VIN cover.



### CAUTION

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

Note:

The VIN can be also seen on the frame plate of your vehicle (depending on the version).

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 guidance, maintenance and care instructions given in the owner's manual must be complied with, in order to sustain your claims towards warranty. Only strict compliance with the customer specifications stated in the owner's manual ensures the prolonging of the natural life of your vehicle.

For more details regarding the warranty information, you may visit [www.nipponia.com](http://www.nipponia.com).

# MAINTENANCE SCHEDULE

EN

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

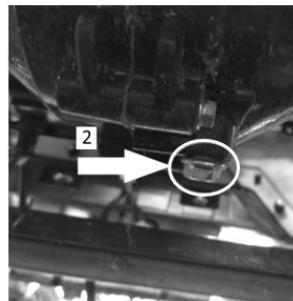
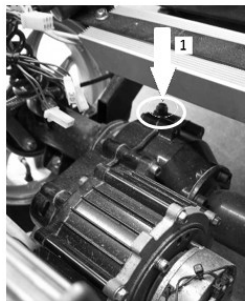
The inspection intervals are required, otherwise, no warranty can be granted.		First 1000 km	Every 3000 km	Every 6000 km
PART	TO DO			
Common check before driving (refer to page 27)	Inspect			
Throttle and grip	Inspect	I		I
Fittings, buttons and seals	Inspect / Adjust	I/A		I/A
Fasteners, Bolts, Screws, Nuts	Inspect / Adjust		I/A	
Braking system, fluid, pads, brake shoes	Inspect / Replace	I	I	
Front and rear suspension system	Inspect	I		I
Wires and connectors	Inspect	I	I	
Bearing of front and rear wheels	Inspect / Replace	I	I	
Bearings of steering stem	Inspect / Lubricate	I		I
Tyre condition / pressure	Inspect / Adjust / Replace	I	I	
Battery terminal	Inspect / Clean	I	I	
Controller	Clean	C		C
Charger	Clean	C		C
Transmission system / gear oil leakage	Inspect / Replace	R	I	
<b>A - ADJUST / C - CLEAN / R - REPLACE / I - INSPECT (Inspect or Clean or Lubricate or Replace, if necessary)</b>				

## Gear Transmission oil

Use gear oil suitable for transmission system. Recommended oil types are grade SL 10W-40 or 80w-90 GL-5.

The gear oil quantity of replacement is 110ml.

The filling port (1) is located at the right side of the crankcase. The drain port is located at the bottom of the right side of the crankcase.



Filling port (1)  
Drain bolt (2)

## Gear oil replacement

1. Set your vehicle on a level surface.
2. Remove the drain bolt (2) and the filling bolt (1). After the gear oil has been drained out thoroughly, clean the drain bolt and tighten it.
3. Pour about 110ml of new gear oil.
4. Tighten the filling port to prevent the gear oil from flowing out.
5. For a new vehicle replace the gear oil after the first 1000km.

This work should only be done at an authorized Nipponia service point.

# SERVICE PLAN

EN

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

<p>1000 km</p> <p>Stamp / Signature</p>	<p>3000 km</p> <p>Stamp / Signature</p>
<p>6000 km</p> <p>Stamp / Signature</p>	<p>9000 km</p> <p>Stamp / Signature</p>

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.*

<p>12000 km</p> <p>Stamp / Signature</p>	<p>15000 km</p> <p>Stamp / Signature</p>
<p>18000 km</p> <p>Stamp / Signature</p>	<p>21000 km</p> <p>Stamp / Signature</p>

VEHICLE IDENTIFICATION NUMBER: \_\_\_\_\_ NAME OF THE CUSTOMER: \_\_\_\_\_

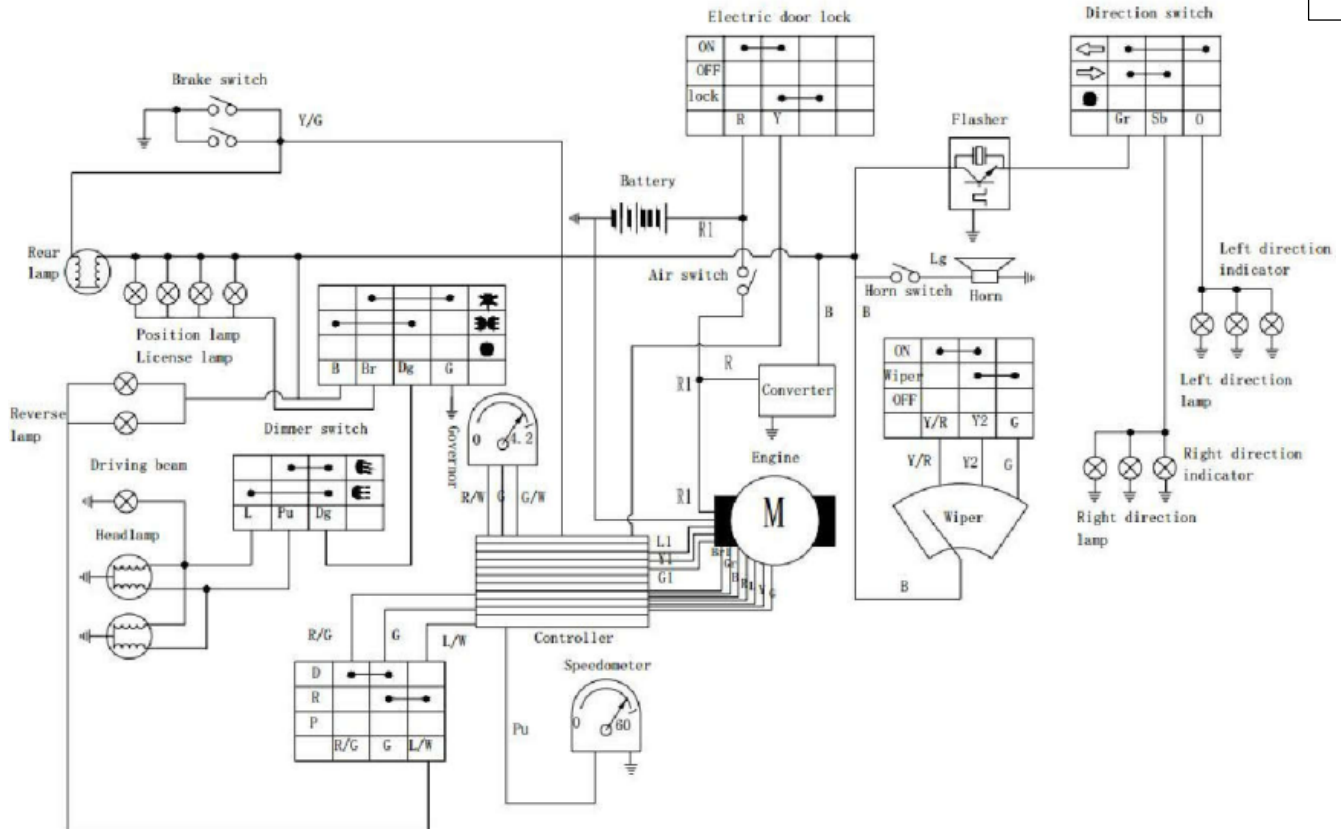
MODEL: \_\_\_\_\_ SIGNATURE OF THE CUSTOMER: \_\_\_\_\_



# WIRING DIAGRAM

EN

2FAST

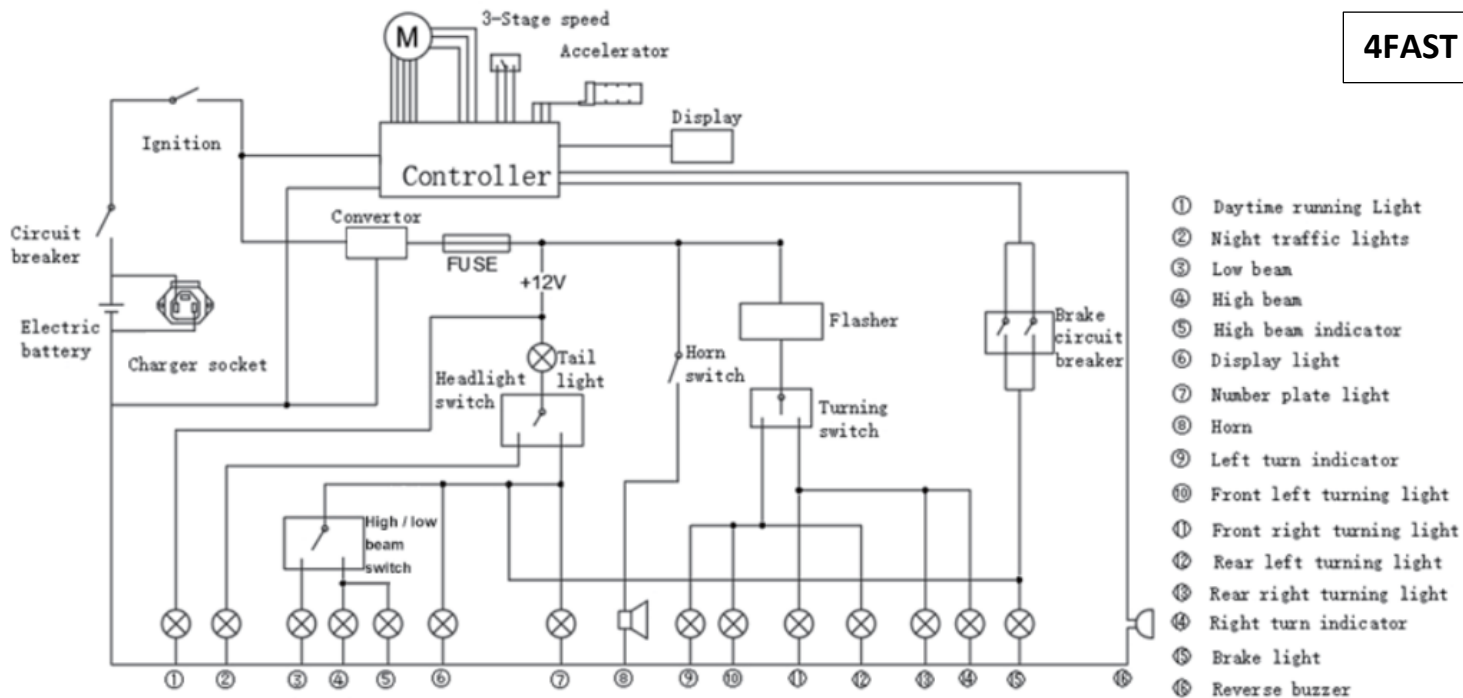




# WIRING DIAGRAM

EN

4FAST







SCAN ME

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