



OWNER'S MANUAL



  
**zion**

## **IMPORTANT MANUAL INFORMATION**

Congratulations on your purchase of the ZION. This model is the result of a vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made a leader in these fields.

This manual will give you an understanding of the operation, inspection, and basic maintenance of this scooter. If you have any questions concerning the operation or maintenance of your scooter, please consult a dealer.

The design and manufacture of this scooter fully comply with the emissions standards for clean air applicable at the date of manufacture. We have met these standards without reducing the performance or economy of operation of the scooter. To maintain these high standards, it is important that you and your dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

## IMPORTANT MANUAL INFORMATION

### **⚠ WARNING**

Particularly important information is distinguished in this manual by the following notations:

### **CAUTION:**

**Failure to follow WARNING instructions could result in severe injury or death to the scooter operator, a bystander, or a person inspecting or repairing the scooter.**

**A CAUTION indicates special precautions that must be taken to avoid damage to the scooter.**

**NOTE: A NOTE provides key information to make procedures easier or clearer.**

### **NOTE:**

- **Please always put this manual with vehicle for rider maintenance/ dealer tracking of service records even if vehicle is being sold.**
- **This manual contains the most of the vehicle information, however, will continually improve its product design and quality that lead to difference between the manual and vehicle. If you have any questions concerning this manual, please consult your dealer.**

### **⚠ WARNING**

**FOR YOUR OWN SAFETY, PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATION THIS SCOOTER. ONLY OPERATE THE SCOOTER UNTIL YOU HAVE COMPLETELY AWARE OF ADEQUATE KNOWLEDGE OF CONTROLS AND OPERATION FEATURE AND YOU HAVE BEEN TRAINED IN SAFE AND PROPER RIDING TECHNIQUES. PERIODIC INSPECTIONS, WELL**

## IMPORTANT MANUAL INFORMATION

**MAINTENANCE AND GOOD RIDING SKILLS, WILL ENSURE YOUR SAFETY RIDING AND INCREASE THE PRODUCT RELIABILITY OF THIS SCOOTER.**

\*Product and specifications are subject to change without notice.



AFFIX DEALER

LABEL HERE

ZION OWNER'S MANUA

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## SAFETY INFORMATION

THIS SCOOTER ARE TWO WHEEL SINGLE TRACK VEHICLES. THE USE OF SAVETY AND OPERATION MAY IN DIFFERENT RESULT BY THE USE OF PROPER RIDING TECHNIQUES OF THE OPERATOR.

TO REMIND OF OPERATOR, WHO SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING.

HE OR SHE SHOULD:

- WELL TRAINED AND FAMILIAR TO ALL THE ASPECTS OF SCOOTER OPERATION.
- FULLY READ AND AWARE OF MAINTENANCE REQUIREMENTS THAT N

-OTED IN THIS OWNER'S MANUAL.

- OBTAIN QUALIFIED TRAINING & LEGAL LICENSE FOR OPERATION OF THIS VEHICLE.
- WELL AND PROFESSIONAL MAINTENANCE SERVICE FOR OPERATOR AND CERTIFICATED REPAIR SHOP/ DEALER TO ACQUIRE GOOD MECHANICAL CONDITIONS OF VEHICLE.

### Safe riding

- Always pre-check your vehicle before riding is key point to prevent an accident.

- please follow the maximum loads limited of operator and passenger.

- Most of accident on the motorists is caused by automobile driver who "failure to recognize out the vehicle" and caused mobile/scooter accidents. Therefore, to make yourself conspicuous appear to public will be very effective in reducing the change of this kind of accidents

### Therefore:

- Wear a brightly colored protective clothes/jacket.
- Operate the turning signals before turning and slow down the speed approaching and pass through

the intersection.

- Keep proper distance with other Motorists, and let them aware of your location.
- Know your skills and limits.
- Never lend your scooter to others who not qualified for riding
- Always follow the legal speed limit on the scooter and traffic law.
- The posture of operator and passenger is important for proper control. Properly riding posture can keep scooter in balance while riding.

- Operator should sit up-right with two hand hold on handle bar, foot on floorboard while driving.
- Passenger should make sure that he/she can firmly hold on grip or operator with foot step on footrest.

- Driving after alcohol drink or other illegal drugs is strictly prohibited.

- This scooter is designed for on-road use only. It is not suitable for off-road use.

### **Protective clothing**

Properly clothing yourself will keep you safety from potential accidents:

- Always wear an approved helmet.

- with face shield to protect your eye from dust and rain drop
- The wear of proper jacket, shoes, groves etc., can be better protection, reducing the degree of injury from un-expected accident.
- Never wear loose-fitting clothes, otherwise they could catch on the control levers or wheels and cause injury or an accident.
- Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.

### Modifications

Modifications made to this scooter that not approved by, or the removal of original equipment, may let scooter unsafe for use and cause severe personal injury.

Modifications may also make your scooter illegal touse.

### Loading and accessories

Adding accessories or cargo to your scooter may cause the different on the weight distribution of scooter and influence on the steering & balance.

It may cause possibility of an accident, please extremely caution and follow below limitation when you equipped

with accessories. Below are some general or accessories. Here are some guidelines to follow if loading cargo or adding accessories to your scooter:

#### Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit.

**Maximum load (not include the vehicle) : 160 kg**  
**Maximum load of rear carrier: 8kg;**  
**Maximum load of the luggage box: 5kgs;**  
**Maximum load of hook: 1.5kg.**

When loading within this weight limit, keep the following in mind:

- Cargo and accessory weight should be kept as low and close to the scooter as possible. Make sure to distribute the weight as evenly as possible on both sides of the scooter to minimize imbalance or instability.
- Make sure that accessories and cargo are securely attached to scooter before riding
- Never attach any large or heavy items to the handlebar, front fork, or front fender. Such items can create unstable handling or a slow steering response.

#### Accessories

Genuine accessories have been specifically designed for

## SAFETY INFORMATION

use on this scooter. If need, please contact with can not test all other accessories, you must personally be reasonable for the proper selection, installation and use of non-original accessories.

Keep the following guidelines in mind, when mounting accessories.

- Never install accessories or carry cargo that would influence on the ground clearance, limit suspension travel, steering, or obscure lights or turning lights, reflectors.
- Accessories on the handle bar/front suspension area will cause bad influence on steering the scooter. if you will install accessories, please keep it as light in

weight and not interfere on steering the vehicle.

- This vehicle is for On-Road transportation purpose only, please don't install any of extended cargo carrier as sulky, that will make scooter unstable in cross winds and vehicle turns.
- While equip with electrical accessories, please consult with qualified stores, to make sure such items will not exceed the capacity of the scooter's electrical system. Unproved install of such items may cause a dangerous loss of lights, lower.

### **Gasoline and exhaust gas**

- GASOLINE IS HIGHLY

#### FLAMMABLE:

- Always turn the engine off when refueling.
- Take care not to spill any gasoline on the engine (hot) or exhaust system when refueling.
- Do not smoke or use Mobile phone while refueling .
- Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.
- Always turn the engine off before leaving the scooter

and remove the key from the main switch. When parking the scooter, please note the following:

- The engine and exhaust system remain hot. Therefore, park the scooter in a place where pedestrians or children are not likely to touch these hot areas.
- Do not park the scooter on a slope or soft ground, otherwise it may fall over.
- Do not lay your scooter to near flammable place.
- In case of swallow any gasoline, or gasoline get into your eyes, please see your doctor immediately. Keep away the gasoline to your skin and

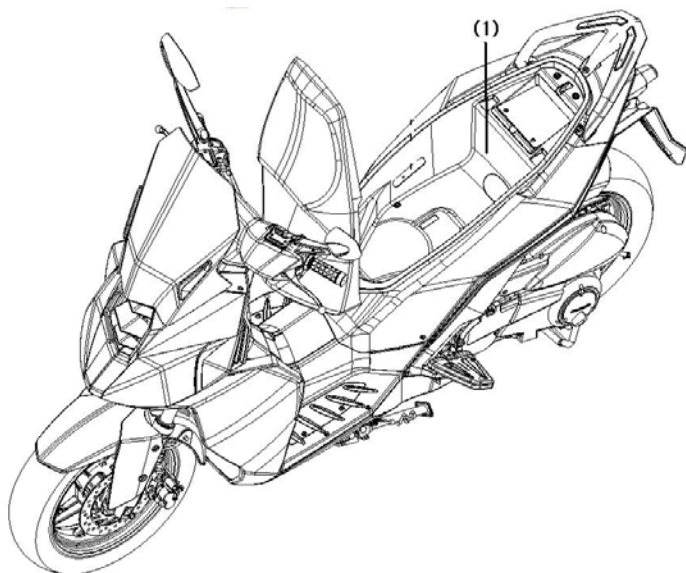
water.

### **Other safe-riding points**

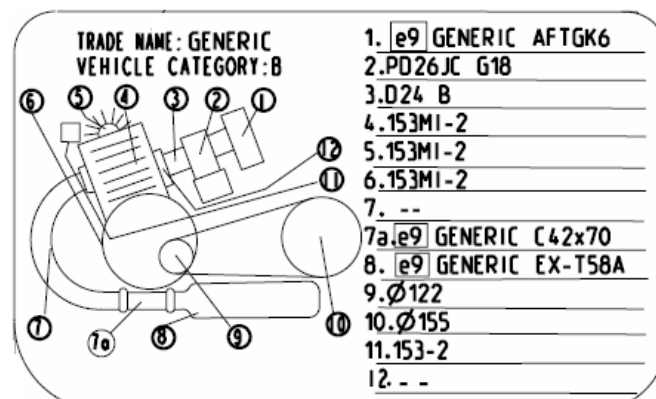
- Turn the signal before making turns.
- When raining or across on run on the wet road, Iron Plates, keep your speed low, slightly using braking to avoid slipping or even fall down.
- Be careful when passing parked cars. A driver might not see you and open a door in your path.

## Location of labels

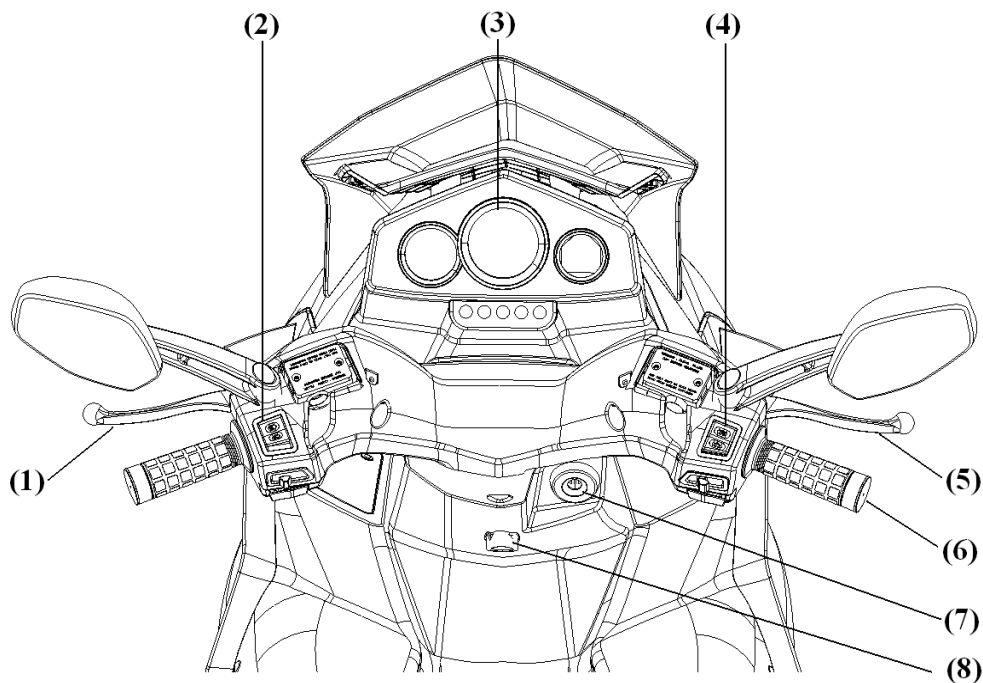
There is an anti-tampering label in helmet box of the 125cc scooter, which could be seen after opening the seat.



## 1. LABEL, ANTI-TAMPERING

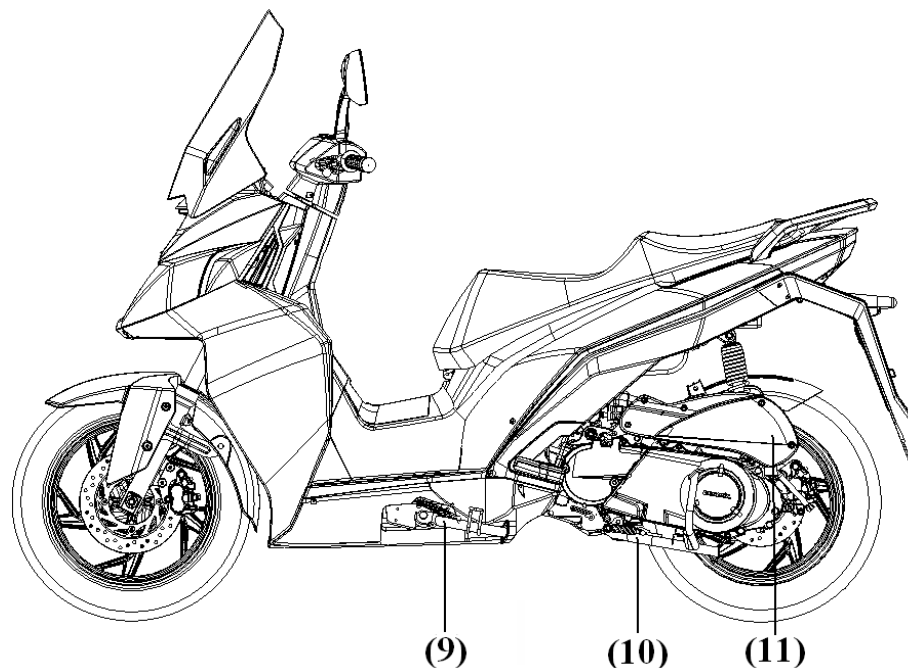


## Controls and instruments



- |                       |                             |
|-----------------------|-----------------------------|
| (1) Rear brake level  | (2) Left handle bar switch  |
| (3) Meter assy.       | (4) Right handle bar switch |
| (5) Front brake level | (6) Throttle grip           |
| (7) Ignition switch   | (8) Hook                    |

## Left view

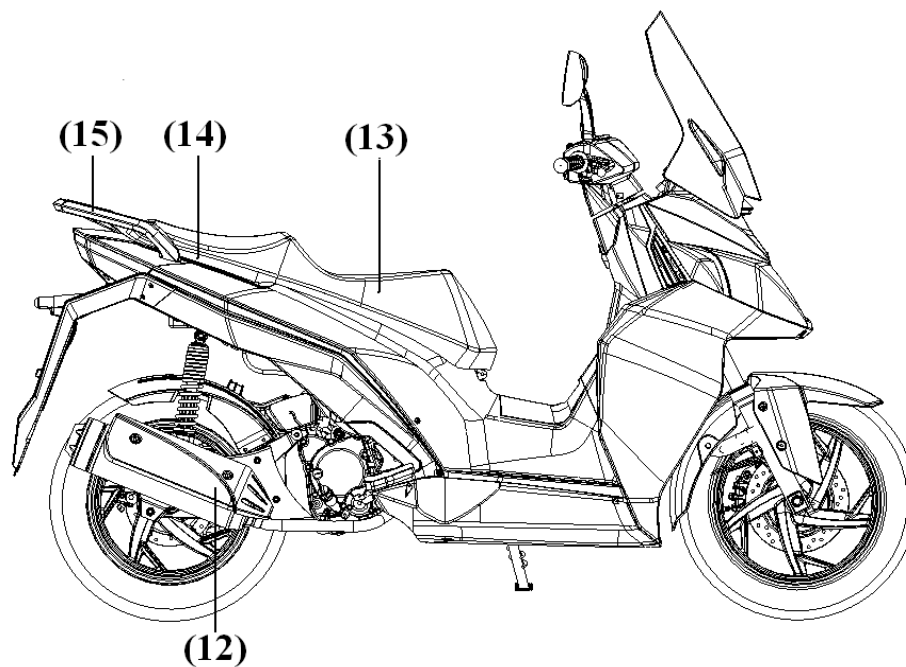


(9) Side stand

(10) Main Stand

(11) Air cleaner

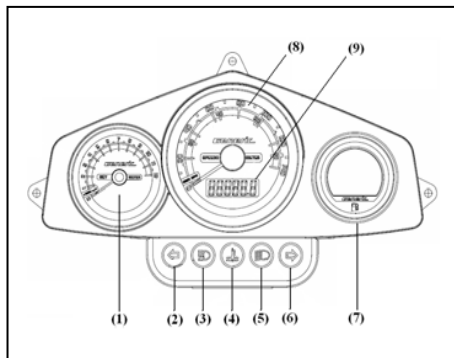
## Right view



- (12) Exhaust Muffler    (13) Luggage box  
(14) Battery            (15) Rear carrier

# INSTRUMENT AND CONTROL FUNCTIONS

## Instruments



- (1) Tachometer
- (2) Left turn indicator
- (3) High beam indicator
- (4) Water Thermometer
- (5) Low beam indicator
- (6) Right turn indicator
- (7) Fuel indicator
- (8) Speedometer
- (9) Odometer

### (1) Tachometer

Tachometer indicate the engine rev/min.

### (2) Left turn indicator

The indicator will be flashing against the position when left turn signal is on.

### (3) High beam indicator

Blue lights come on when high beam headlight is on.

### (4) Water thermometer indicator

It indicates the cooling fluid temperature. When it is on, means the water temperature is too high and should have a break sometime. If it is on by a long time, please check the coolant bottle.

### (5) Low beam indicator

Low beam indicator comes on when low beam headlight is on.

### (6) Right turn indicator

The indicator will be flashing against the position when right turn signal is on.

### (7) Fuel Indicator

Indicate oil capacity in fuel tank (The main switch at “” and the indicating right and at “” not indicating). One space mark flashing means the available fuel is about 1 liter and please add unleaded RQ-90 or above.

### (8) Speedometer

Indicate driving speed of vehicle, km/h in outer and mile/h in inner.

### (9) Odometer

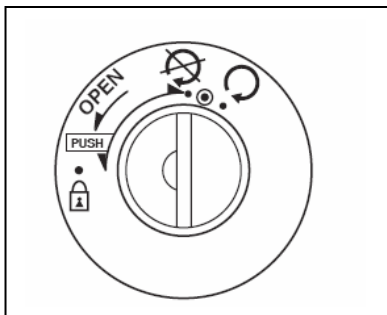
Indicates the distance covered in kilometers in total.

## Key

There are two keys with the vehicle (If the vehicle has a “guard against theft and alarm system”, four keys are provided).

# INSTRUMENT AND CONTROL FUNCTIONS

## Ignition switch



### Power ON “○”

Power on the power is connected to start the engine and the key can not be taken out.

### Power off, “⊗”

All electrical systems are off. The key can be removed.

### Steering lock “🔒”

Turn handlebar to left, insert key, push and turn to “🔒”, the handlebar can be locked, and the key can be taken out; Push and turn to “⊗”, the

handlebar is unlock automatically.

OPEN position, the cushion is opened. Do not energize downwards!

### Oil sensor 🔍

turn the key to here and lighting means it works normally.

### OPEN

Turn the key to OPEN without pushing to open the seat.

### ATTENTION:

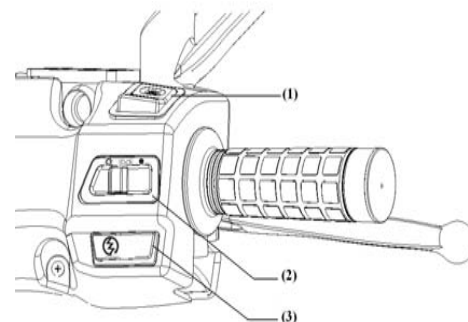
Make sure the steering lock is locked when parking. Please try to turn the handle bar to ensure the vehicle to be locked.

### WARNING:

Don't turn the key to “🔒” during driving, or the handlebar will be out of control and cause accidents.

Never turn the key to “⊗” or “🔒” while the vehicle is moving. Otherwise, the electrical systems 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 to “⊗” or “🔒”.

## Handlebar switches



### (1) Ignition switch “○” and engine

### off switch “⊗”:

The power switch is “ON” and ignition

# INSTRUMENT AND CONTROL FUNCTIONS

switch is at  position, at the meantime, grip the brake, the engine can be started. And press engine off switch at  position, the engine is will be off.

## ATTENTION:

Release the button after the engine has started. To avoid engine damage, do not engage starter with engine running. Each start can't last more than 3 second, 10 second interval. Stop to start the engage, once five times later it doesn't work, To avoid accumulator over discharge, when the potential trouble has gone, you can use it.

## (2) Light switches “/☰/●”:

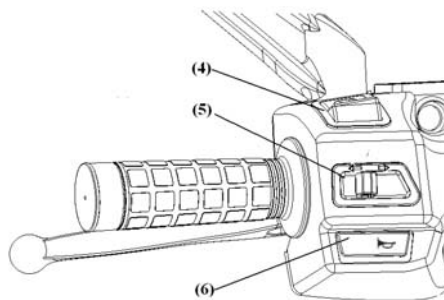
Turning the light switch to “☰”, the front position light, instrument lights and tail light will turn on at the same time.

Turning the light switch to “”, the headlight, night light for instrument board

and tail light will turn on at the same time. Turning the light switch to “●”, headlight, instrument lights and taillight will turn off.

## (3) Start button “”

Press “” with main switch “ON” and ignition switch “☰”, while grip front brake level or rear brake level. Then spin the throttle grip slightly, the engine will start.



## (4) High beam switch “” and

### low beam switch “”

When setting the switch to , the high

beam will on meanwhile the blue tell-tale for high beam will flash.

When setting the switch to , low beam will on. For safety reasons, please always use the low beam when city driving or meeting other vehicles which coming forward.

## NOTE:

### Overtaking switch ( )

When the switch at low beam position, press it down the overtaking lamp will on. Warn the driver ahead of you if you want to pass him/her. Loosen the hand and the light return to low beam switch automatically.

## (5) Turn signal switch“ ⇌ ”:

To signal a right-hand turn, push this switch to “”. To signal a left-hand turn, push this switch to “”. When released, the switch returns to the center position. To cancel the turn signal lights, push the switch in after it has returned to the center

## INSTRUMENT AND CONTROL FUNCTIONS

position.

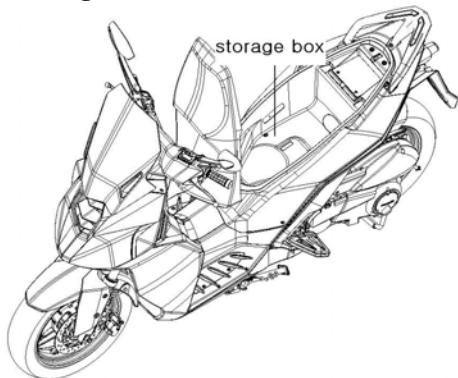
### **WARNING:**

Please make sure use the turn signal while turning or changing lanes. After using, please set it to the original position.

### **(6) Horn switch “”:**

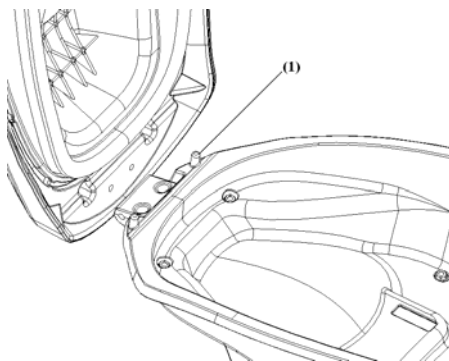
When the key is on , press this switch to sound the horn.

### **Storage box**



The storage box is under the cushion. Insert the key to electrical lock and turn counterclockwise, then the cushion could

be open. Put down the cushion and press its rear slightly, the box could be locked. A helmet could be hung on the pin (1) as the following picture.



### **Attention:**

The maximum load of helmet box is 5kgs.

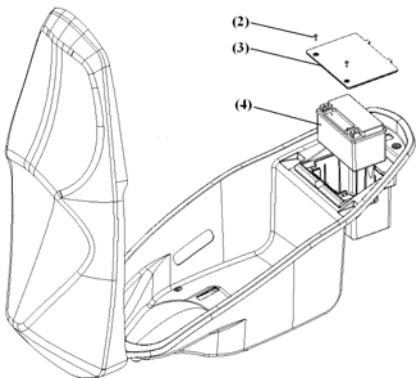
Keep the following points in mind when using the storage compartment.

- Since the storage compartment accumulates heat when exposed to the sun, do not store anything susceptible to heat inside it.
- To avoid humidity from spreading through the storage compartment, wrap wet articles in a plastic bag before storing them in the compartment.
- Since the storage compartment may get wet while the scooter is being washed, wrap any articles stored in the compartment in a plastic bag.
- Do not keep anything valuable or breakable in the storage compartment.

## NOTE:

- Some helmets cannot be stored in the storage compartment because of their size or shape.
- Before you leave the scooter, make sure the seat is closed firmly.
- Do not store valuables in the box.
- Take out valuables before washing to avoid wetting these objects
- Do not place thermal sensitive objects in the box because of engine's heat and high temperature.

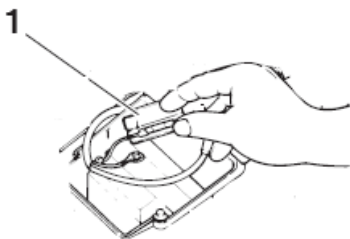
## Battery



- (1) Battery specification: 12V/6AH.
- (2) Battery is in the rear of the luggage box.
- (3) Take out the battery:  
Turn off the main switch, and locate the key to the position for open the seat (see point storage box). The battery is located in the rear part of storage box see picture above.

Following the steps below to uninstall or install the battery.

1. Unscrew the bolts (2) on the battery box fixing cover.
2. Remove the cover (3), the battery negative and positive bolts,
3. Remove the battery (4) carefully.
4. Do the opposite order to install it.



## Replacing the fuse

The fuse holder is located behind battery cover.

If the fuse is blown, replace it as follows.

1. Turn the key to “ ” and turn off all electrical circuits.
2. Remove the blown fuse, and then install a new fuse of the specified amperage.
3. Turn the key to “ ” and turn on the electrical circuits to check if the devices operate.
4. If the fuse immediately blows again, have a dealer check the electrical system.

## Specified fuse:

15 A

**WARNING:**

Don't use other fuses not fitted the required specification or lead such as the brass wires to replace. Otherwise it **may cause serious negative effects to the circuit system, even cause fire, lamp failure, loss of engine power.**

**Catalytic converter**

This model is equipped with 2 catalytic converters in the exhaust system. One is inside the muffler, the other is joined with the outlet pipe outside.

# OPERATION AND IMPORTANT RIDING POINTS

## Start the motorcycle

1. Inspect engine oil capacity by oil gauge, check the gasoline volume and coolant. Add fuel if insufficiency.
2. Open the main stand and make the rear wheel leave the ground.
3. Insert key and spin to "ON", turn ignition switch to position '  '. And the side stand is closed.
4. Apply front or rear brake lever to connect the power for starting when using electric start.
5. When engine is cool, especially in winter, turn ignition switch to position "", slightly turn the throttle grip and press the electric starter button for five more or less times to start the engine. Accelerate slowly for one to three minutes and drive after thermometer needle indicating to mark C or above. If the thermometer needle can't indicate to mark C please contact the local dealer or service.
6. Open ignition switch and use electric start when engine is warm. The vehicle will

be started successfully because of using advanced electromagnetism start carburetor.

### WARNING:

Start the engine in an unsuitable way may cause dangerous. Once start the engine with setting refueling, the motorcycle could rush forward, if the main stand did not open. So please open the main stand before started the engine. Only when the engine in idling, the main stand could be closed. All in all before driving, do not increase the throttle in order to avoid the accident, and dangerous.

Don't start engine in the unventilated space. Because the toxic carbon monoxide gas is poisonous. The engine should be turn off, if no person around for operation.

### CAUTION:

Don't leave engine operating excessively without driving; the engine

components may be damaged by idling for a long period as for high temperature.

## Starting off

### (1) Close the main stand or side stand

Push the vehicle forwards then the main stand will be self-back automatically.

Turn the vehicle upright when only the side stand parking and the side stand will be self-back to the original position. Get on from the left side and let left leg touch the ground after sit up for stable.

### CAUTION:

Carefully after motorcycle started and before driving off, the braking condition should be maintained.

### WARNING:

Before driving, check the location of side stand carefully. If the side stand is not in the closed position, the side stand may touch ground and result loss of balance, and causing dangerous when turning left.

# OPERATION AND IMPORTANT RIDING POINTS

## (2) Release brake lever

### WARNING:

After releasing the brake lever, can not accelerate the engine arbitrary. The vehicle will rush out suddenly to cause accidents.

## (3) Rotate the throttle grip slowly and the motorcycle will go forward.

### WARNING:

To prevent the vehicle from rushing out, do not rotate suddenly,

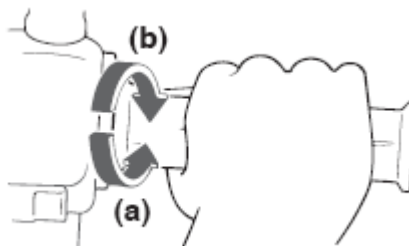
## (4) Driving correctly

Before started, look around and confirm that is safe for driving.

### Acceleration and deceleration

The speed can be adjusted by opening and closing the throttle. To increase the

speed, turn the throttle grip in direction (a). To reduce the speed, turn the throttle grip in direction (b).



### Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1000 km. For this reason, you should read the following specification carefully.

Since the engine is brand new, do not put an excessive load on it for the first 1000 km. The various parts in the engine wear and polish themselves to the correct operating clearances.

During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

0 ~ 150 km

Avoid prolonged operation above 1/3 throttle. Vary the speed of the scooter from time to time. Do not operate it at one set throttle position.

150 ~ 500 km

Avoid prolonged operation above 1/2 throttle.

500 ~ 1000 km

Avoid cruising speeds in excess of 3/4 throttle.

1000 km and beyond

Avoid prolonged full throttle operation. Vary speeds occasionally.

# OPERATION AND IMPORTANT RIDING POINTS

## CAUTION:

If any engine trouble should occur during the engine break-in period, immediately have a dealer check the vehicle.

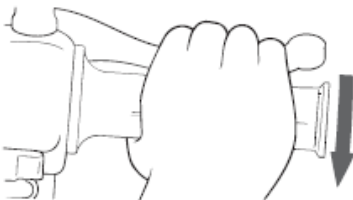
## CAUTION:

After 1000 km of operation, the final transmission oil must be changed.

## Braking

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

### FRONT



### REAR



## WARNING:

- Avoid braking hard or suddenly (especially when leaning over to one side), otherwise the scooter may skid or overturn.
- Railroad crossings, street-car rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Therefore, slow down when approaching such areas and cross them with caution
- Keep in mind that braking on a wet road is much more difficult.
- Ride slowly down a hill, as braking downhill can be very difficult.

## Parking

• **When close to the parking lot:** please open turn indicator, observe rearview mirror, and pay attention to the past vehicles with deceleration slowly. Close throttle, and then apply front and rear brakes, meanwhile the brake lamps turn on for warning vehicles behind.

• **Parking:**

Close turn indicator, and pull the switch to position "X".

Put main stand in the flat ground, without impeding traffic, or the vehicle overturned easily on uneven ground.

Seize the handlebar with the left hand, and grasp rear luggage rack with right hand, and then step on the main stand as well as pull the vehicle towards backward with right hand.

After the vehicle is parked, please lock steering, remove keys to prevent accidents.

## OPERATION AND IMPORTANT RIDING POINTS

### ATTENTION:

If you cannot determine the breakdown, please contact with the sales promptly, because they have the best technology and the corresponding special-purpose tool, and could provide the best service for you. Specially, when your motorcycle is in the warranty period please do not begin to disassemble on motorcycle's spare part, this will affect the maintenance basis.

### CAUTION:

Never park in an area where there are fire hazards such as grass or other flammable materials.

### WARNING:

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn.

### WARNING:

Do not enable the spark plug to approach the spark plug hole that at the forehead of the air cylinder or close to fuel oil tank, , because the fuel oil steam can ignite, which may cause the fire danger.

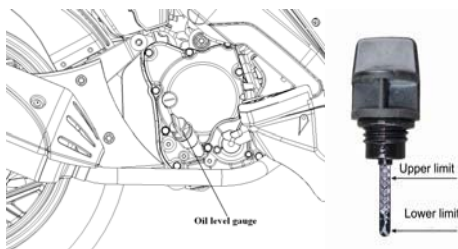
# OPERATION AND IMPORTANT RIDING POINTS

## Fuel tank check and refill

Make sure that there is sufficient fuel in the fuel tank.

When fuel level gauge indicator is close to the red inked ribbon, the fuel effective remaining quantity probably is 1.0 liters in the fuel tank, please refill unleaded RQ- 90 gasoline or above as soon as possible. The use of unleaded gasoline will display engine's performance fully, lengthening engine's service life. The inferior fuel will expose the engine to breakdown.

## Check, replace or refill engine oil



To choose high quality oil and replace oil regularly is very important to prolong the life of the engine. Checking the oil level everyday and replacing oil regularly are the essential work of the maintenance items.

Please check oil gauge regularly and add or replace oil according the limits. Start engine and run in idle speed several minutes, then stop engine and wait for one minute to inspect:

① Open the main stand, and take out the oil level gauge to wipe or clean making it dry;

Reinsert oil level gauge, don't screw it;

Take out oil level gauge and check it, the oil level should be between the upper and lower limits;

After the 1000 km traveling, filter the oil. If the oil maintained clean, the vehicle can be driven within 5000 km within one year since produced;

Engine oil capacity is 1L and

exchanging capacity is 0.8L;

The oil capacity can't less than the minimum level position;

When vehicle driving in dusty, cold and poor road conditions, the oil deteriorate easily. Please replace the oil early.

Please use the SF-class or exceed for the high-level, high-performance engine oil.

⑨The engine oil type is SAE10W/40.

### CAUTION:

Check engine oil level often during driving and supply it in time. When tilt parked or on the slopes, the measurement of oil is not correct.

If check oil level when the engine is just stopped, please take care not to be burned.

## Engine oil replacement process

(Please replace the engine oil when the engine is hot):

(1)Place the vehicle by main stand at flat

# OPERATION AND IMPORTANT RIDING POINTS

ground;

Screw off the engine oil gauge when the engine is off;

Put a pan under the engine drain bolt;

Unscrew the drain bolt under the engine

Jump-start several times to eject all the oil in the engine;

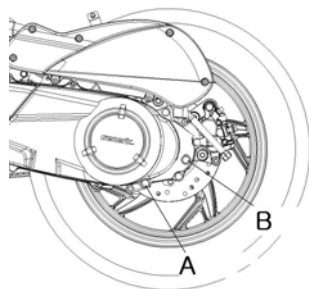
Tighten the drain bolt;

Add new oil from filling hole, reinstall oil level gauge. Be sure to use manufacture recommended oil or the oil required in specifications;

⑧ Restart the engine, check it in different speed for 2-3 minutes, and make sure whether there is a leakage in drain bolt;

⑨ Turn off engine, check whether the oil

between the upper and lower limits on oil gauge, if insufficient,



please added more oil till reaching the upper limits line .

A .oil drain bolt

B. oil filled bolt

## SPECIAL CAUTION:

Wear-in period to the initial 300 kilometers, valve clearance should be re-adjusted according to the requirement.

When you purchase the motorcycle, the oil is already installed by the factory and it need not to be replaced within one year or 5000km. But the customer should check the cleanliness of oil regularly. And filter the oil before continue usage if necessary.

Meanwhile, oil situation should be checked regularly, and if oil is insufficient, please add the specific engine oil or the engine oil required in specifications.

## Brake light inspection

Turn the main switch to position 'O'. Confirm if the brake light comes on while braking the front and rear lever. Inspect

and clean the brake light cover if any damaged or dirty.

## Turning light inspection

Turn the main switch to position 'O'. Operate the turn signal switch and inspect indicator, front, rear, left and right turn lights if flashing. Inspect and clean the light cover if any damaged or dirty.

## Front and tail lamp inspection

Check the lamp is bright or not while starting engine. Inspect and clean the light cover if any damaged or dirty.

## Front and rear shock absorber inspection

Added the weight to handle bar and seat from the upper and lower direction find if see if front and rear shock is functional.

## Speedometer inspection

Inspect speedometer if it is working normally

## Horn inspection

# OPERATION AND IMPORTANT RIDING POINTS

Turn the main switch to position '○' and press horn button to check whether horn sounds normally

## Rearview mirror inspection

Inspect and adjust if angle of the rearview mirrors are not proper to see the back situation clearly. Check and clean if any damaged and dirty

## License plate inspection

Inspect the license plate is damaged or loosely.

## Exhaust inspection

Inspect the vent-pipe whether it loose and check if has exceptional noises.

## Tire inspection

### Inspect the tyre pressure

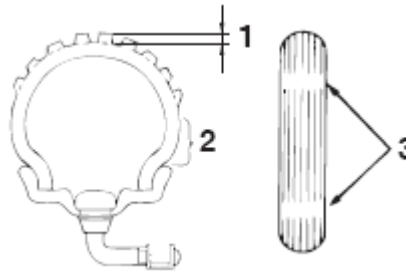
Normal pressure (single driver):

Front tire: 280 kPa    Rear tire: 280 kPa

Make sure that the tire groove without any metal sheet or macadam, taking them away if any before drive.

If any tire is broken or exceeds to the limits of tire groove depth, replace it with a new one.

When the tire middle groove of the front tyre is less than 1.6mm and rear wheel less than 2.0mm, please replace with a new one.



1. Tire tread depth
2. Tire sidewall
3. Tire wear indicator

Front tyre size : 120/70-15

Rear tyre size : 140/60-14

# PERIODIC MAINTENANCE AND MINOR REPAIR

| The inspection intervals are required, otherwise, no guarantee can be granted |                            | 1000 km or 1. month | 4000 km or 6. month | 7000 km or 12. month | 10000 km or 18. month | 13000 km or 24. month |
|-------------------------------------------------------------------------------|----------------------------|---------------------|---------------------|----------------------|-----------------------|-----------------------|
| PART                                                                          | TO DO                      |                     |                     |                      |                       |                       |
| Air filter                                                                    | clean/ exchange            | ✓                   | ✓                   | E                    | ✓                     | ✓                     |
| Wheels, rims                                                                  | Control                    | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Tires                                                                         | Control/ tire pressure     |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Wheel bearing                                                                 | Control/ exchange          |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Steering bearing                                                              | Control/ clean/ lubricate  | ✓                   | ✓                   | ✓                    | lubricate             | ✓                     |
| Screws Coverparts                                                             | Control/ tighten           |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Brake system                                                                  | Control/ clean/ exchange   |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Main stand                                                                    | Control/ clean/ lubricate  |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Front forke                                                                   | Control                    |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Rear suspension                                                               | Control                    |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Oil filter                                                                    | Clean                      |                     |                     | ✓                    |                       | ✓                     |
| Engine oil                                                                    | Control/ exchange          | E                   | ✓                   | E                    | ✓                     | E                     |
| Valves (Engine)                                                               | Control/ adjust            | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Transmission oil                                                              | Exchange                   | E                   |                     | E                    |                       | E                     |
| Variomatic belt                                                               | Control/ exchange          |                     | ✓                   | E                    | ✓                     |                       |
| Fly wheels                                                                    | Control/ exchange          |                     | ✓                   | E                    | ✓                     |                       |
| Driven chain/ sprokets                                                        | Control/ clean/ exchange   | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Clutch                                                                        | Control                    | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Cable/ bowden                                                                 | Control/ clean/ lubricate  | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Throttle                                                                      | Control/ adjust/ lubricate |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Lights/ switches                                                              | Control/ adjust            | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Fuel line/ fuel filter                                                        | Control/ exchange          |                     | ✓                   | E                    | ✓                     | ✓                     |
| Idle speed                                                                    | Control/ adjust            | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |
| Exhaust system                                                                | Control/ tighten           |                     | ✓                   | ✓                    | ✓                     | ✓                     |
| Coolant                                                                       | Control                    | ✓                   | ✓                   | ✓                    | ✓                     | ✓                     |

ATTENTION: Variomatic belt, fly wheels, spark pluge, fuel filter and air filter element have to be exchanged every 7000km.

Only use duration coolant. Brake lines have to be exchanged at least every 4 years.

From 13.000km or 24th month the inspection should be made every 7000km.

The vehicle is constantly checked for rust. The owner is responsible for rust prevention.

## PERIODIC MAINTENANCE AND MINOR REPAIR

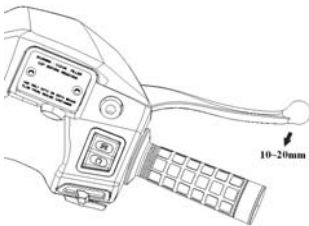
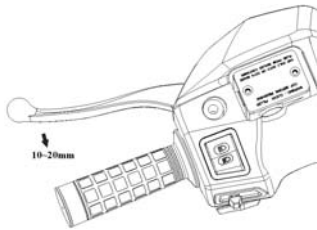
### Adjusting the free play of front and rear brake

To ensure safe riding, please perform the following inspection before operation of unit.

The free play of front brake is 10-20mm.

The free play of rear brake is 10-20mm.

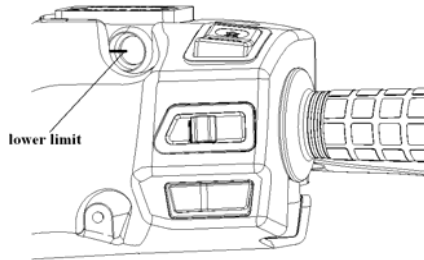
“Free play” is defined as range of travel before engagement of brakes. Lever/pedal should have proper free play and move freely throughout entire range of travel.



### Brake power regularly

Drive on the dry road, decelerate and check the front and rear brake power is ok or not. Adjust to the best brake capacity.

### Brake fluid



Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective.

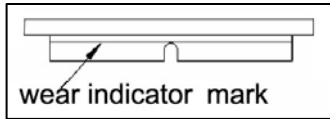
Before riding, check that the brake fluid is above the minimum level mark and refill it if necessary. Low position brake fluid level may indicate worn brake pads and/ or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

Observe these precautions:

- 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.
- Refill with the same type of brake fluid. Mixing fluids may result in a 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 fluid 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.

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Brake pad



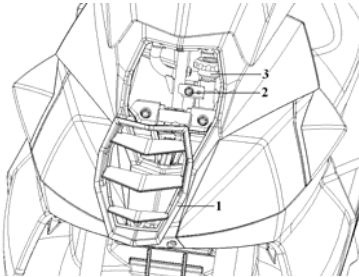
Check the brake pads whether wear to the limit indicator mark or not. If reach to the limit indicator mark, should replace it in time to maintain the best braking performance.

If the braking system or brake pads need to repair, we strongly advise you leave the work done by the distribution.

Disc brake system is a high-pressure brake. For security, hydraulic tube should be replaced once every four years; the brake fluid should be replaced every two years.

Do not drive immediately, after the brake pad just replaced. Hold and release the brake lever several times to recover the normal extension of the hold hands, and the brake fluid cycle stably. At the same time, drive in low speed then brake to make it meet the performance requirement.

## Coolant maintaining methods



At the normal maintaining time (The coolant tank has liquid coolant), open the main stand, removing the front mask on the cover (2 in the drawing) and the rubber plug, fill coolant to the sub water tank slowly and the water level should near to the icon “H”.

When the vice water tank without liquid coolant, hold up the main stand, removing the big cover grid (follow drawing icon 1), removing the water inlet fixed bolt ( drawing icon 2), taking the water inlet (drawing icon 3) out lightly, Pressing tank cover and let it counterclockwise rotation

and injecting coolant to the radiator (recommend to use the filler to add water). When add coolant, please screw the calorstat bolt down, in order to the gas inside can be fully discharged (screw the bolt on after injecting water). When add coolant for the expansion water canteen, the water should reach to at least icon “H” scale. After that, fix components in reverse order.

## Final transmission oil

The final transmission case must be checked for oil leakage before each ride. If any leakage is found, have a dealer check and repair the scooter. In addition, the final transmission oil must be changed as followings at the intervals specified in the periodic maintenance and lubrication chart.

1. Start the engine, warm up the final transmission oil by riding the scooter for several minutes, and then stop the engine.

2. Place the scooter on the main stand.

3. Place an oil pan under the final transmission case to collect the used oil.

4. Remove the oil filler cap and drain bolt to drain the oil from the final transmission case.

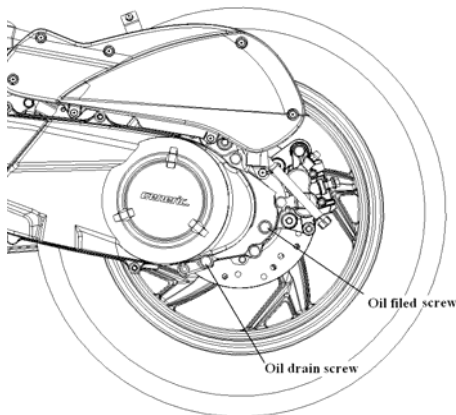
5. Install the final transmission oil drain

6. Add the requested amount of the recommended final transmission oil, and then install and tighten the oil filter cap.

7. Check the final transmission case for oil leakage. If oil is leaking, check

# PERIODIC MAINTENANCE AND MINOR REPAIR

for the cause.

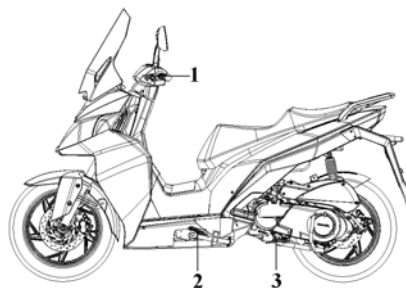
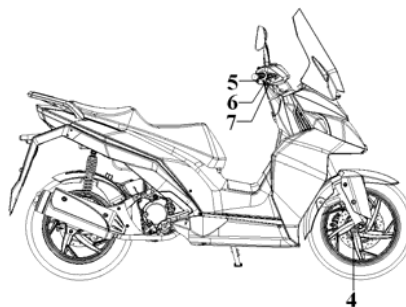


## Components lubricate

Proper lubrication can maintain operation excellence. It can also prolong the life of the vehicle and provide safe operating conditions.

After long periods of riding or get caught in the rain or after cleaning the vehicle, re-lubrication is recommended. The lubrication maintenance points are as the

following pictures:



“Y” Lubricant oil

“Z” Grease

1.Rear brake lever bolt “Z”

2.Side stand contact bolt and spring hook

“Z”

3.Main stand contact bolt and spring hook

“Z”

4.The gear and shaft bearing of speedometer “Z”

5.Throttle cable “Y”

6.Front brake lever bolt “Z”

7.Speedometer pivot “Y”

**Recommended final transmission oil:**

Castrol 80W-90

## WARNING:

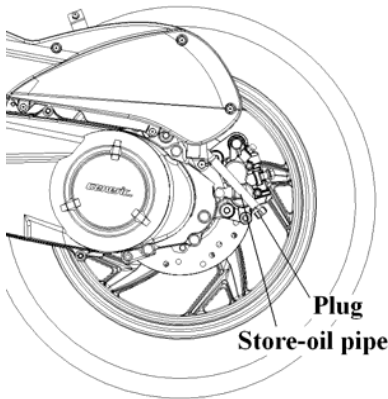
After 1,000 km running-in, new motorcycle must be taken correct maintenance and carry out regular maintenance with the instruction.

## PERIODIC MAINTENANCE AND MINOR REPAIR

### ATTENTION:

The points with “ ” mark lubrication should be operated by the special skilled people of sales shop.

### Plot pipes



Check the condition of plot pipe in air cleaner regularly and discharge it in time.

Procedure: release hoop and shift up, then,

make plug drawn from the plot pipes, and discharge the stored oil in the pipeline. After that, insert the plug into the plot lines. Finally, release the hoop lower and clamp plot tubing plug.

### Spark plug

Please use small wire brush or spark plug cleaner, to clean the carbon accumulated on the spark plug.

Adjust the gap of the spark plug to between 0.5-0.7 mm when the vehicle has traveled 1000 km, readjust it every 4000 km.

Replace the spark plug every 8000 km.

Spark plug type: CR8E



### CAUTION:

The standard spark plug for this vehicle is specified chosen .It can accommodate the majority work, please use the required type. If not choose the appropriate spark plug, will lead to serious engine damage.

### CAUTION:

Please don't over tighten the spark plug to avoid cylinder head damaged. Don't allow foreign material enter to the spark plug hole.

### Carburetor

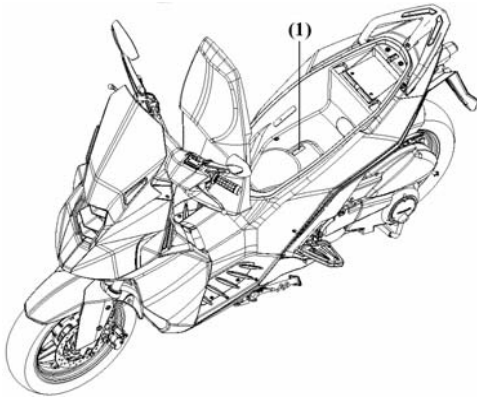
Stable carburetor ability is the basic requirement of the engine. Carburetor adjusted by the factory, please do not deviate from factory presets. 2 points of adjustment are required: adjusting the clearance of throttle valve and idle speed.

#### • Idle speed adjusting:

Start engine, idle to enough warm-up and

## PERIODIC MAINTENANCE AND MINOR REPAIR

then stop the throttle, open the luggage box and adjust the idle bolt (can adjust by the following drawing icon (1) )right and left knob, let the engine rotation keep at the lowest stable rotation speed ( between 1400-1600 R/min).

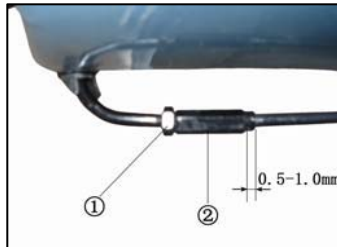


### CAUTION:

Adjusting the engine idle speed should be operated when it is preheated completely.

### ● Throttle cable adjustment

- a、Release locknut ;
- b、Rotate adjusting screw to adjust the clearance and make it in 0.5-1.0mm.
- c、Tighten the lock nut 1 after adjusting the nut 2.



In order to convenience the carburetor operation, we place the discharge plug to stop the carburetor at the pipe end. Install well after each operation and nipped well by clamp.

### WARNING:

After the adjustment of throttle cable, check the throttle grip rotation. Please don't increase the engine idle speed as for the engine adjustment. Meanwhile, when use the throttle bar, it can be rotated smoothly and freely.

### Tyre inspection

For be sure the most security and the long periods use, inspect the tire pressure and groove depth regularly and inspect often at the using process.

When the tire middle groove of the front wheel is less 1.6mm and rear wheel less 2.0mm, please change the tires. The worn tire easily causes damage.

### Tyre pressure

Front tire: 280 kPa Rear tire: 280 kPa

That the tire pressure is not enough will be accelerate the tire abrasion and affect the drive stability seriously. Not enough pressure make the turns difficultly and too high pressure make the tire gripping ground

## PERIODIC MAINTENANCE AND MINOR REPAIR

ability decrease, easily skid and out of control. Make sure to keep the tire pressure at the required limit. Tire pressure adjustment should be done at low temperature.

### WARNING:

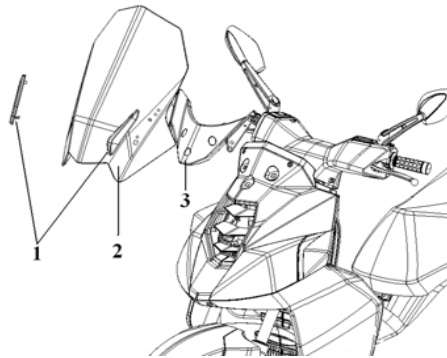
The tire pressure and abrasion is very important to the vehicle performance and security. Please inspect the groove abrasion and pressure situation often.

### The type of bulb

Replace the bulbs with the same type and size as the original. Higher power bulbs will affect the life of the battery. Each bulb rating power is as the following table.

### Head light beam adjustment

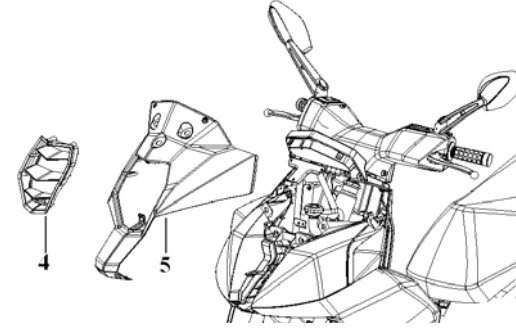
The head light beam can be adjusted at the vertical direction.



a. Firstly remove the windshield glass

|                           |            |
|---------------------------|------------|
| Headlight bulb            | 12V 35/35W |
| Tail/Braking light bulb   | 12V 21/5W  |
| Front turning light bulb  | 12V21W     |
| Rear turning light bulb   | 12V16W     |
| Front position light bulb | 12V 3W     |
| license plate bulb        | 12V 5W     |

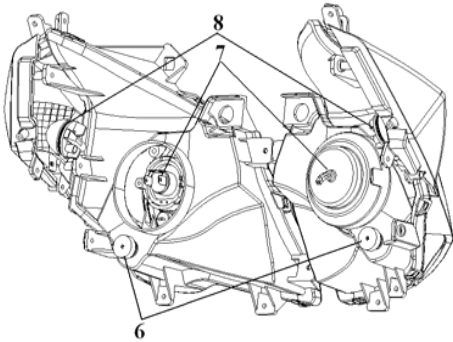
cover (drawing icon 1), windshield glass (drawing icon 2), windshield glass stand (drawing icon 3);



b. Remove the front big cover grid (drawing icon 4) and the big cover (drawing icon 5);

c. Adjust light adjusted screw (drawing icon 6), spin the adjusted screw by hand. Clockwise spinning the light beam is up and counterclockwise spinning the light beam is down.

## PERIODIC MAINTENANCE AND MINOR REPAIR



### Headlight bulb and front turning light bulb replacement

Replace the headlight bulb should be according to the following process:

- The same processes “a” and “b” as (9);
- Remove the headlight tail rubber jacket (drawing icon 7 is headlight and icon 8 is front turning light);
- Remove the damaged bulb and replace with new;
- Install the front cover by the reversed process.

### ATTENTION:

When replacing the bulb, should clean the grease and dust on the bulb by clean cloth.

### The replacement of tail lamp, braking light and rear turning light

Replacing the tail lamp, braking light and rear turning light should operate according to the following process:

- Remove the back mudguard (drawing icon 1);
- Remove the tail light cover (drawing icon 2);
- Spin tail light/ braking light(or rear turning light) holder bayonet socket, remove the damaged lamp and replace with new;
- Install the components by the reversed process.

### Battery

The vehicle uses the maintenance free battery. The new battery should add the

electrolyte and then initially recharge, in this way, prolong the battery and the sales do this job. Make sure to use the original electrolyte.

The battery is at the rear of the helmet barrel. Remove the battery should be according to the following process:

- Shut off the main switch;
- Open the cushion;
- Screw the battery box cover bolt and the cover;
- Remove the negative (-) bolt and then positive (+) bolt;
- Take out the battery slightly.

Install the battery by the reversed process.

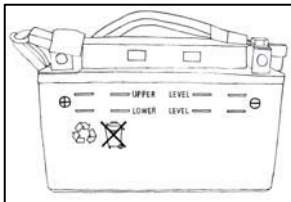
The vehicle uses the maintenance free battery. The new battery should add the electrolyte and then initially recharge, in this way, prolong the battery and the sales do this job. Make sure to use the original electrolyte.

## PERIODIC MAINTENANCE AND MINOR REPAIR

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- a. Shut off the main switch;
- b. Open the cushion;
- c. Screw the battery box cover bolt and the cover;
- d. Remove the negative (-) bolt and then positive (+) bolt;
- e. Take out the battery slightly.

Install the battery by the reversed process.



### ATTENTION:

Re-install the battery; battery wires must be properly connected. If reverse the battery wires, will lead to damage circuit system and battery itself. Red is to be received in the positive (+), and the black line must be received in the negative (-).

Be sure to shut off power switch, when check or replace the battery.

### Add electrolyte to maintenance-free battery, please according to the following requirements:

A. Put the battery in the plane level, then tear off seal tape. B. Remove electrolyte from the plastic containers, and disperse its cover of the battery used as infuse slug. Attention, not tear and poke the seal film of infuse slug, leave the slug as the cover of battery infuse slug.

C. Hold up the battery container in a vertical and reversed way, so the six infuse orifice of containers can aim at the six

injection of battery, pull down the electrolyte container, break the seal film in the electrolyte container's inserted orifice, inject electrolyte to the battery. At this point, watch the three pipes in both side, bubble emergent in at least one pipe in each side, that means liquid injection begin in a normal way. Note, do not oblique electrolyte containers, otherwise, electrolyte may interrupt the flow of injection.

D. Be sure that both sides (all around 3) at least have one pipe emerging bubble, leave it until it is injecting more than 20 minutes. If the right and left sides (about 3 each) have non-bubble emergence, clap the bottom of electrolyte containers 2-3 times gently. Then, check out whether there is at least a bubble emerging in each side. (At this point, do not to discard containers electrolyte); E. Clap the bottom of electrolyte containers several times gently to eject the rest electrolyte. Then pull out the electrolyte containers gradually.

## PERIODIC MAINTENANCE AND MINOR REPAIR

F. The six sealed plug on the cover aim at the battery with six infuse orifice, make sure the end of sealed plug inserted into the injection of battery, Push it down until the battery cover levered with the top surface of battery. After the addition of electrolyte, do not to pull out the cover and not to add any additional liquid or electrolyte.

### **Replacement battery, please pay attention to the following matters**

When replace the batteries, please confirm the vehicle models and battery type. The battery's specification has taken into account for the best match when designed the motorcycle. If different models replace the battery, may affect motorcycle's performance and life, and cause circuit fault. If not use motorcycle for a long-term, must remove and keep the battery, and charge it once a month.

### **WARNING:**

When battery take chemical reaction, it is easy to produce explosive gases. Beware of sparks, flame, and avoid the heat. Because of Batteries with sulfuric acid (electrolyte) inside, skin or eye touch the electrolyte may cause serious burns. Electrolyte is toxic substances, bewaring the children playing.

### **Maintenance of air cleaner**

The air cleaner is on left of the vehicle and near the rear wheel. If the air cleaner be jammed by dusty or sand, the resistance of enter gas will augment, output power will reduce, and oil consume will augment. Maintain the air cleaner as below sequence:

- (1) Dismantle the setscrew of air cleaner  
with wrench ;
- (2) Unscrew the bolt of side cover and remove the mounting screws of air

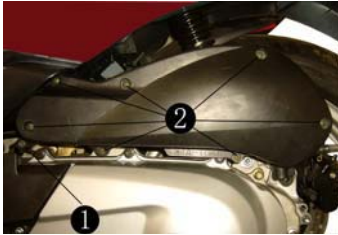
cleaner.

- (3) Disassemble the air cleaner case cover and remove the air filter.
- (4) Clean the air filter by compressing air.
- (5) Reinstall the air cleaner by the reversed process. Make sure the air cleaner components fixed well at the original position and airproof also.

### **CAUTION:**

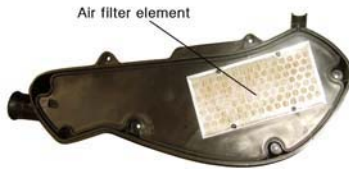
Clean the dusty by the compression air from the side near the carburetor. Or else the dusty will insufflate to the cleaner. The air cleaner should be cleaned frequently if motorcycle used usually under dusty or sand conditions. Dusty and sand will enter the cylinder and the engine will be damaged if starting engine without air cleaner.

## PERIODIC MAINTENANCE AND MINOR REPAIR



### **WARNING:**

Clean the papery filter element, make sure not spot the grease or water. Or else the filter will be no use. Recommend this job to be done by the sales.



### **Troubleshooting**

Although Our company's scooters receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power. The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your scooter require any repair, take it to a Our company's dealer, whose skilled technicians have the necessary tools, experience, and know how to service the scooter properly.

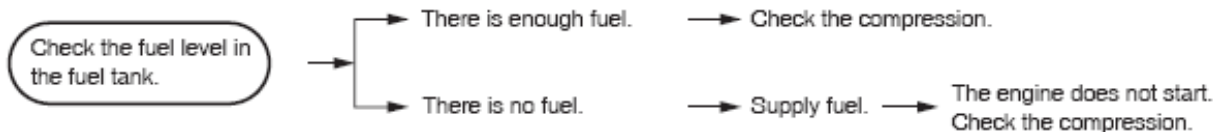
Use only genuine Manufacture's replacement parts. Limitation parts may look like Manufacture's parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

### **Troubleshooting chart**

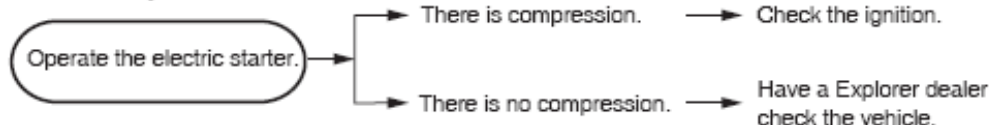
**Keep away open flames and do not smoke while checking or working on the fuel system.**

# PERIODIC MAINTENANCE AND MINOR REPAIR

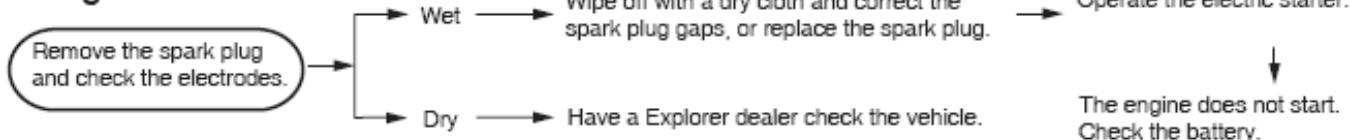
## 1. Fuel



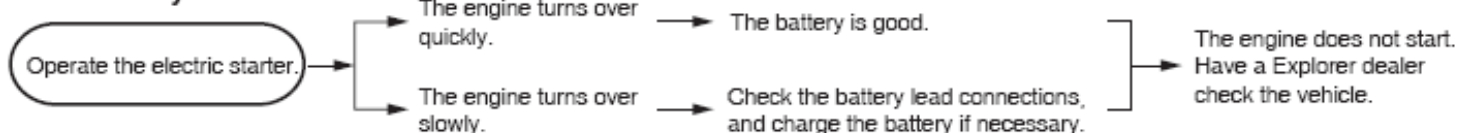
## 2. Compression



## 3. Ignition



## 4. Battery



## Clean the Scooter

Clean of the scooter in proper and suitable way will make it attractive, extend it's life and optimize the performance.

### Before cleaning

1. Cover the muffler outlet with a plastic bag to prevent water to come inside. Please do it only after the engine/muffler in cool status.
2. Closed every caps, covers, electrical connectors that are well install and water can be avoid to get into, while you do the clean job.

### CAUTION:

- We do not suggest to use the acidic cleaners for cleaning, but if such products have to been used on hard-to-remove dirt, please only do the spot cleaning and use water, dry it and corrosion protection spray after finish.
- Please only use mild detergent and water to clean plastic covers, panels, windshields, headlight lenses, meter lenses, etc. After cleaning, use only a soft, clean cloth or sponge to dry the plastics.
- Please prevent any harsh chemical products (like fuel, rusty removers, break fluid...) on plastic arts, especially on painted covers, lens and wind shield. It will damage or un-function them, and even cause safety consideration

- Do not use high-pressure washer, steam cleaner since it will cause water seepage and deterioration on axle bearings, electric components as connectors and switches, lights, breathe hose and tube, brake shoes and pads and seals, due to the pressure and heat.
- For scooters equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause blur or scratch. Only wash it by gentle water and mild detergent.

### 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.

After riding in the rain, sear the sea or on

salt-sprayed roads

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 in the rain, near the sea or on salt sprayed roads.

1. Clean the scooter with cold water and a mild detergent after the engine has cooled down.

2. Apply a corrosion protection spray on all metal, including chrome-plated and nickel-plated, surfaces to prevent corrosion.

**CAUTION:**

Do not use warm water since it increases the corrosive action of the salt.

**WARNING:**

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

**NOTE:**

Consult a dealer for advice on what products to use.

## Storage

### Short-term

Always store your scooter in a cool, dry place and, if necessary, protect it against dust with a scooter cover

- Please store the scooter in a well air flow room with dry air if possible. A place with wet humidity will cause rust.
- To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

### Long-term

Before storing your scooter for several months:

1. Follow all the instructions in the "Clean" section of this chapter.
2. Drain out the fuel from the carburetor float chamber by loosening the drain bolt. It will prevent fuel deposits and cause

the hard engine start afterward. Pour the drained fuel into the fuel tank.

3. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
4. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
  - a. Remove the spark plug cap and spark plug.
  - b. Pour a teaspoonful of engine oil into the spark plug bore.

- c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)

- d. Turn the engine over several times with the starter. (This will coat the

cylinder wall with oil.)

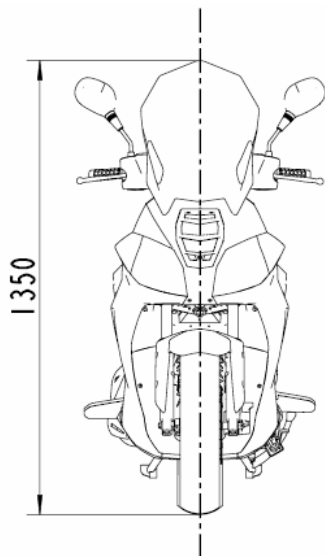
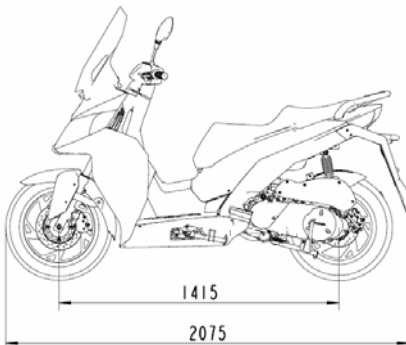
- e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.
5. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side stand/ main stand.
  6. Check and, if necessary, correct the tire air pressure, and then lift the scooter so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
  7. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
  8. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)].

# SCOOTER CLEAN AND STORAGE

## Specification and technical parameter

**To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.**

|                            |                                             |
|----------------------------|---------------------------------------------|
| Engine model               | QJ153MI-2, 4 stroke, water-cool             |
| Piston displacement        | 124.6ml                                     |
| Nominal displacement       | 125ml                                       |
| Bore × Stroke              | 52.4mm×57.8mm                               |
| Compression ratio          | 11:1                                        |
| Maximum power              | 8.5KW/9000r/ min                            |
| Rating power               | 7.8kW/8500r/min                             |
| Shifting mode              | Triangle strap drive, automatic             |
| Clutch                     | Dry ,centrifugal                            |
| Ignition                   | CDI                                         |
| Starting mode              | Electric start                              |
| Fuel tank                  | 8.4L                                        |
| Weight                     | 105kg                                       |
| Length                     | 2075mm                                      |
| Width                      | 755mm                                       |
| Height                     | 1350mm                                      |
| Wheelbase                  | 1415mm                                      |
| Tire                       | Front tire 120/70-15    Rear tire 140/60-14 |
| Braking mode               | Front/Rear: disk brake                      |
| Design maximum load weight | 150kg                                       |
| Fuel type                  | RQ-90 unleaded and above                    |
| Design maximum speed       | 90km/h                                      |



## Engine

Engine type:  
Liquid-cooling 4-stroke  
Cylinder arrangement:  
Forward-inclined single  
cylinder  
Displacement:  
125cc or 151cc  
Compression ratio:  
10.4:1(125cc)  
11 :1 (151cc)  
Starting system:  
Electric starter  
Lubrication system:  
4-stroke engine oil

## Engine oil quantity

Quantity: 1 L  
Recommended type:  
Castrol Power Racing 2T

## Transmission oil

Type: SAE 85W140  
Oil change quantity: 0.8 L

Recommended type:  
Castrol 80w-90

## Air filter

Air filter element:  
Wet element

## Fuel

Recommended fuel:  
Regular unleaded gasoline  
NO. 90 or above.  
Fuel tank capacity:  
8.6±0.2L

## Carburetor

Manufacturer: LEADER  
Type:

125cc : PD26JC G18

Main jet: 180ml/min  
Idle jet: 37.5ml/min

151cc : PD26JC G17

Main jet: 180ml/min  
Idle jet: 42.5ml/min

## Spark plug (s)

Manufacturer/model:  
NGK/CR8E  
Spark plug gap:  
0.6-0.7 mm

## Clutch

Clutch type  
Dry, centrifugal automatic  
Transmission type:  
V-belt automatic  
Operation:  
Centrifugal automatic type

## Chassis

Frame type:  
Steel tube backbone

## Front tire

Type:  
Tubeless  
Size:  
120/70-15 56S

## Rear tire

Type:  
Tubeless

Size:  
140/60-14 64S  
Manufacturer/model:  
CST C-922

## Tire air pressure (measured on cold tires)

Front:  
230 KPa  
Rear:  
230 KPa

## Front wheel

Wheel type:  
Cast rim  
Rim size:  
3.75 x 15

## Rear wheel

Wheel type:  
Cast rim  
Rim size:  
3.75 x 14

## Front brake

Type:  
Disc brake

Right hand operation  
Recommended fluid:  
DOT 3 or 4  
(CASTROL SUPER DISK  
BRAKEFLUID DOT 4.)

## Rear brake

Type:  
Disc brake  
Operation:  
Left hand operation

## Front suspension

Type:  
Lever type fork  
Spring/shock absorber type:  
Coil spring/oil damper

## Rear suspension

Type:  
Unit swing  
Spring/shock absorber type:  
Coil spring/oil damper

## Electrical system

Ignition system:

|                  |                                   |
|------------------|-----------------------------------|
| CDI              | 12 V, 5.0 W x 1                   |
| Charging system: | Front position lights             |
| Magneto          | 12V, 5W x2                        |
| <b>Battery</b>   | Oil level warning indicator light |
|                  | 12 V, 3 W x 1                     |

Manufacture :

YUASA

Model :

YTX7A-BS

Voltage, capacity :

12 V, 3.0 Ah

## Fuses

Main fuse

15.0 A

## Bulb voltage and wattage x quantity

Headlight

12 V, 35 /35W x 1

Tail/brake light

12 V, 21W

Front turn signal lights

12 V, 21Wx2

Rear turn signal lights

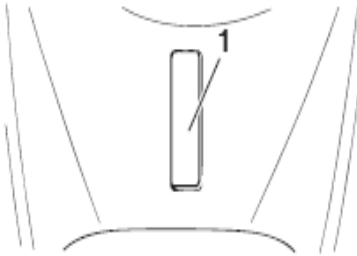
12 V, 21Wx2

License plate light

## VEHICLE IDENTIFICATION NUMBER

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

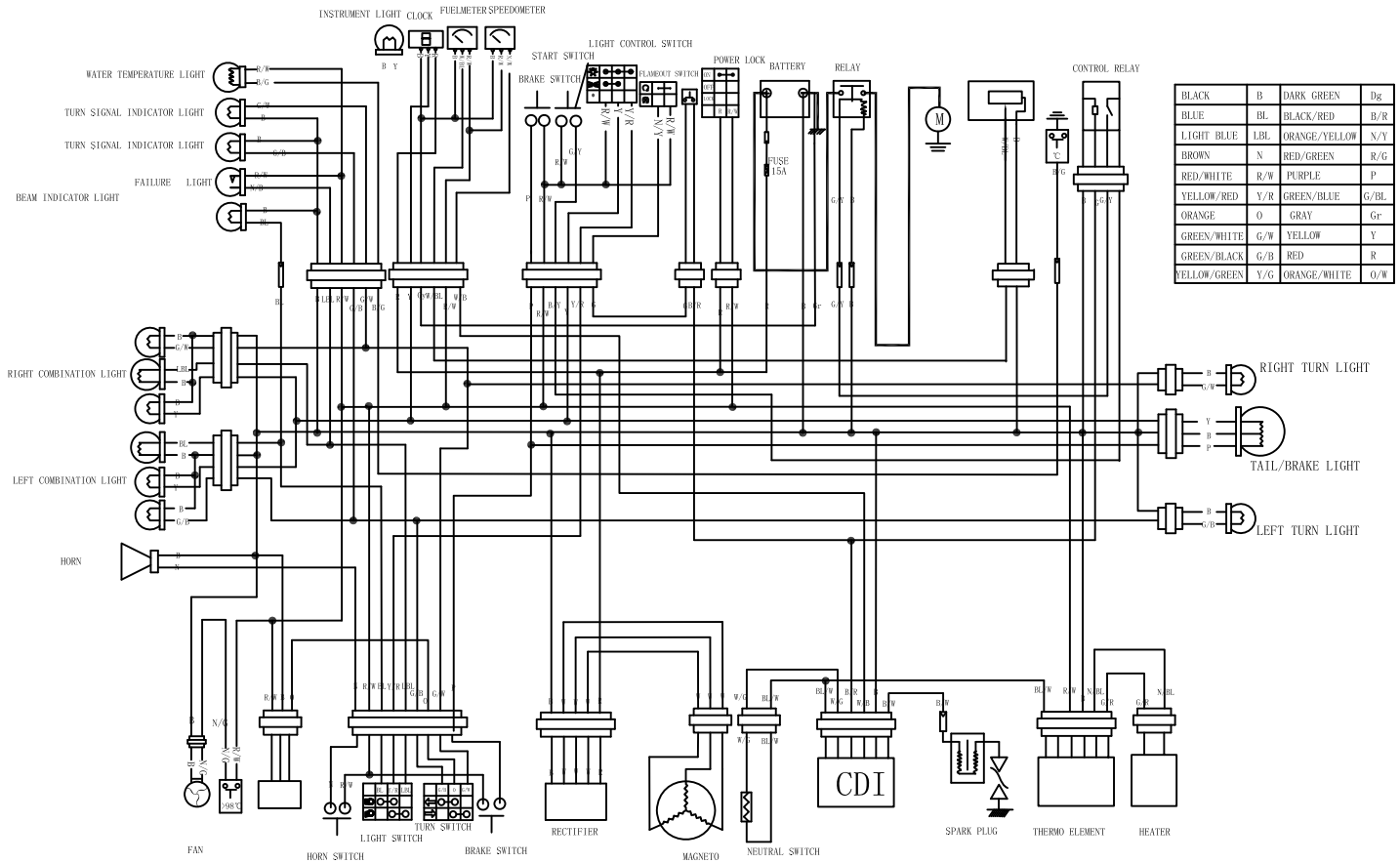
Record the vehicle identification number information in the spaces provided below for assistance when ordering spare parts from a dealer or for reference in case the vehicle is stolen.



1. Vehicle identification number

VEHICLE IDENTIFICATION NUMBER

# WIRING DIAGRAM



# WARRANTY INFORMATION

## Information on warranty claim

Please carefully read 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 operating manual have to be complied with in order to sustain your claim towards warranty. Only the strict compliance with customer specifications stated in the instruction manual ensures the prolonging of the natural life of your vehicle. Starting with the date of the invoice a limited warranty of 24 months is granted regarding the accuracy of the vehicle in terms of material and manufacturing according to latest standards. The legal warranty regulations will not be restricted by this limited guarantee. Maintenance work has to be exclusively done by authorized workshops entitled by us. Warranty in general is bound to the region of invoicing and can therefore only be carried out within the country the vehicle was bought. Damages that can be traced back to inappropriate usage, manipulation, or neglecting of the maintenance/care/operating instructions will not be covered by warranty. Warranty can only be granted if occurring damages are immediately being reported to the seller or any other authorized workshop by the buyer. The warranty claim entitles the buyer to remedy deficiencies or to the reparation respectively the exchange of a damaged part in an authorized workshop after our approval. Compensation for remote or instantaneous damages cannot be granted. Vehicles in desolate condition will not be covered by warranty. Repair works carried out on warranty do not enlarge the guarantee period. Only this document entitles you to call on warranty services. Therefore please make sure that you are delivered this fully filled in document by the seller and that he has registered your vehicle correctly in our system. Please also mind the following advices.

Body and panelling of the vehicle have to be kept free of dirt constantly. Do not use high pressure water blasters, strong jets of water, sharp and corrosive or other aggressive detergents which could harm surfaces and varnish permanently and foster corrosion. It is vital to use protecting cleansers. Please consult our dealers for the right and appropriate products. Aluminium parts or other refined parts (chrome parts, anodized parts or other processed surfaces) have to be treated with appropriate maintenance products in order to prevent oxidation. Frame and metal parts are continuously to be treated with anticorrosive. A vehicle constantly parked outside has to be covered to avoid weathering and crack formations on seat and plastic parts. Vehicles used off-road and for racing purposes are excluded from warranty.

Material which is to be used in the context of service and maintenance works are excluded from warranty as well as the following parts: incandescent bulbs, brake pads, clutch lining, filter elements, spark plugs, drive sprocket, wheel and axle., as well as the tires.

With my signature I confirm that I have closely read, I do fully understand and accept the warranty guidelines stated in this document. The advices in the owner's and instruction manual were explained to me. After the pre delivery inspection the vehicle was given to me in a more perfect technical condition according to the manufacturer's indications.

With the signation of this document I confirm to accept the maintenance and service intervals valid on delivery of the vehicle even if they differ from the intervals mentioned in the user's manual. A currently valid version of the service manual has been handed over to me.

# SERVICE PLAN

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

**1000km or 1.month**

Stamp / Signature

**4000km or 6. month**

Stamp / Signature

**7000KM or 12. month**

Stamp / Signature

**10000km or 18. month**

Stamp / Signature

**13000KM or 24. month**

Stamp / Signature

**16000KM or 30. month**

Stamp / Signature

**19000KM**

Stamp / Signature

**21000KM**

Stamp / Signature

From 16000km maintenance should take place every 3000km or annually.



***generic***

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