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## Owner's Manual

## **Preface**

We highly appreciate you for choosing our model LJ125-9 fuel injection motorcycle, it will offer you pleasant and safe driving.

Driving motorcycle is one of the most exciting sport. For safety reason, you should read this owner's manual carefully and following these instructions before you drive.

This manual introduces the regular maintenance and service, please follow these instructions, it will help you to keep your motorcycle in good condition and more durable.

Our company never stop improving our quality and performance, it may cause color or structure change, not as same as manual description. If it brings any inconvenience to you, we are very sorry about this.

Ningbo Longjia Motorcycle Co., Ltd.

## Important Notice

### 1.Driver and passenger

This motorcycle is designed only for one driver and one passenger.

### 2.Road condition for driving

This motorcycle is only suitable for driving on road.

3.Please read this manual carefully. The run-in time of engine is necessary, it will make motorcycle more durable and stable.

Please take notice of following words:

**Warning:** It means if you don't follow instruction, it may cause serious damage for driver and passenger.

**Carefully:** It means if you don't follow instruction, it may cause the person injured or damage of motorcycle.

**Notice:** Provide useful information.

This user manual is property of the motorcycle. If transfer this vehicle to others, you should pass this manual to new owner together with vehicle.

Without our company permission, it is not allowed to copy or translate any part of this manual.

**The motorcycle use professional oil for lubrication.**

## Special Notice

**Warning: The motorcycle must equip the right fuse for driving, it is not allowed to use other fuse or without fuse. Otherwise it may cause damage to the vehicle or fire.**

Fuse position: Beside battery.

Fuse specification: The main cable fuse is 15A, others are 10A.

The fuse failure is normally by vehicle circuit problem, before change fuse, should check the situation of vehicle. If after change fuse, it breaks again, please send the vehicle to nearest shop for service.

Notice:

※First time mounting or change battery should be careful with Anode and Cathode. If make wrong connection, should check the fuse immediately. even fuse not broken, the vehicle should be sent to service centre to check deeply. The wrong connection for anode and cathode may cause some damage of electric part. If damage part continue working, it may bring some unpredicted risk.

※Before change fuse, should take off the key in case of short circuit.

※When change fuse, should be carefully not damage the fuse bottom, otherwise it may bring damage part or fire.

**Forbidden Modify:**

**Please do not change original parts position, otherwise it will seriously affect the vehicle performance and safety, and even cause vehicle not driving properly. Such as modify electronic, emission and fuel system, it is not allowed legally. Our company will not take the responsibility for any change without our permission.**

# Context

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## Special Notice

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## **Safety information**

### **Safety Regulation:**

1. Before driving must check vehicle, in case of accident or damage parts.
2. Driver must have legal driving license, and not allowed to borrow the vehicle to whom without driving license.
3. Avoid to have damage from other vehicle, driver should:
  - Wear bright color clothes.
  - Not to close other vehicle.
4. Strictly obey regulation, not allowed to cut in other line suddenly.
5. Most accident because of over speed, so speed should follow the speed limitation.
6. When making turns, should turn on indicator.
7. In the cross, parking or fast line, should be carefully driving.
8. Do not modify motorcycle or take off parts, it is illegal and not safe, and it will affect warranty.
9. Add accessories must not affect driving, specially not overload electronic parts.

### **Clothes:**

1. For safety reason, driver must wear helmet, glass and boot, gloves and racing suit. Passenger should also wear helmet.
2. During driving, the muffler temperature is high, it is forbidden to touch muffler during driving or just after driving.
3. During driving, please do not wear too loose clothes.

### **Helmet:**

It is most important to wear good quality helmet and wear glass.

### **Driving when raining:**

Driving in the rain need special attention, the brake distance is two times more than dry weather.

### Motorcycle series number

Vehicle Identification Number ( VIN ) and engine number is for motorcycle registration. Please record your number for future use.

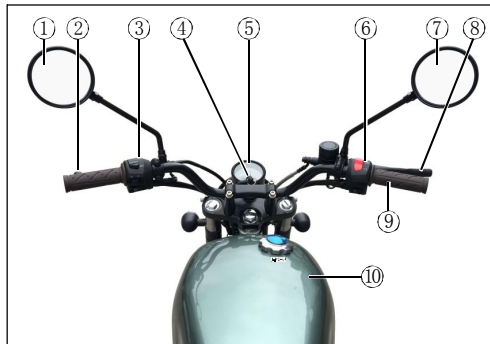
VIN number grave on the vehicle handle bar right side ①,  
Engine number grave on the engine crankcase left side②,  
Product information label on the vehicle handle bar right side ③.

VIN number: \_\_\_\_\_

Engine number: \_\_\_\_\_



### Parts description

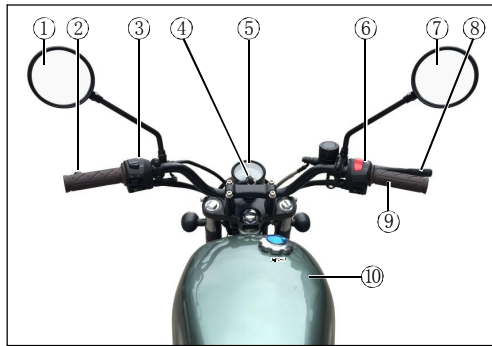


- |                    |                      |                      |
|--------------------|----------------------|----------------------|
| (1)Left mirror     | (2)Clutch lever      | (3)Left side switch  |
| (4)Ignition switch | (5)Speedometer       | (6)Right side switch |
| (7)Right mirror    | (8)Front brake lever | (9)Throttle grip     |
| (10)Fuel tank      | (11)Oil cover        | (12)Rear brake pedal |
| (13)Front footrest | (14)Rear footrest    | (15)Rear brake       |
| (16)Front brake    | (17)Side stand       | (18)Shift gear pedal |
| (19)Seat locker    | (20)Upper muffler    |                      |





### Parts description



- |                    |                      |                      |
|--------------------|----------------------|----------------------|
| (1)Left mirror     | (2)Clutch lever      | (3)Left side switch  |
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| (16)Front brake    | (17)Side stand       | (18)Shift gear pedal |
| (19)Seat locker    | (20)Lower muffler    |                      |



## Speedometer

### (1)Turning light indicator

When the left turning light on, the indicator will be flash. When the right turning light on, the indicator will be flash.

### (2)Neutral indicator

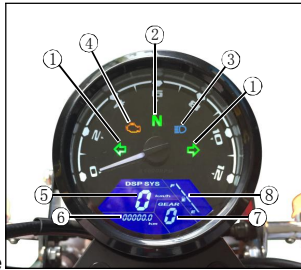
When the gear on neutral, the neutral indicator will be on.

### (3)High beam indicator

When the high beam headlight on, the High beam indicator will be on.

### (4)Malfunction indicator lamp

When the key on, the fuel injection indicator on. Oil pump will work 3 seconds, then engine will start. When the engine start, the indicator will be off. If indicator still on, it means has some problem. In the same way, during normal driving, the indicator should be off. If indicator on, it must stop driving and check immediately.



### (5)Speedo

This is to show your driving speed.

### (6)Odometer

This is to record the distance of all driving.

### (7)Gear position indicators

Indicate the engine's gear position.

### (8)Fuel Gauge

This indicates the fuel volume in the fuel tank.

## Operation of parts

### ●Key



This vehicle has two keys, it's used to start motorcycle and open all the locks. Please keep key in safe place. If you want to have more keys, please contact closest dealer of your area.





### ●Electric power locker



#### Warning:

Please don't try to turn the key during driving, otherwise the vehicle will lose control.

“” logo……when the key on “” position, it is no power and can not start engine, the key can be taken out.

“” logo……when the key on “” position, it has electric power and start engine, the key can not be taken out.



“” position: In case of thieves, when you parking, please use this function. Turn the handle bar to left, press key down and release, then turn the key to “” position, it will lock handlebar. Then you can take out the key.

#### Notice:

when you parking, please lock turning and take out the key in case of thieves. Please park the vehicle in a proper place.

### ●Left grip



#### ①Clutch lever

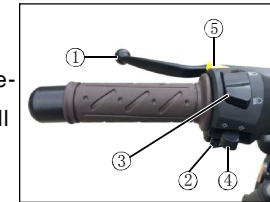
When start the engine or shift gear, please grip clutch lever, it will stop rear wheel driving.

#### ②Horn button

When you press horn button, the horn will work.

#### ③The switch of low and high beam

when the switch on “” position, the high beam on, and the speedometer high beam indicator will be on as well. When switch on “” position, the low beam on. Normally, use low beam when driving in city area or meeting others.



#### ④Turning light switch

Turn the switch to left “←” ,the left side turning light will be flash. Turn the switch to right “→” ,the right side turning light will be flash. Dismiss the turning signal, please press the switch down.

#### **Warning:**

when you change line or turning, please turn on turning light on time. After turning, please turn off the turning light immediately.

#### ⑤Passing

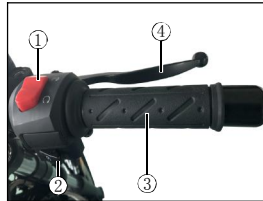
When you fast press this button several times, the headlight will be flash. It is only for pass or warning.

#### ●Right side grip

##### ①Engine off switch

When the switch on “↻” position, it has electric power, the engine can be start.

When the switch on “⊗” position, it is not power, the engine can not be start.



#### **Warning:**

The engine off switch only use for emergency case. When the vehicle still slide, please don't stop engine, otherwise it has air with gas together enter muffler, burning catalyst may damage muffler.

#### ②Start

When you press this button, the engine will be start.

#### ③Throttle grip

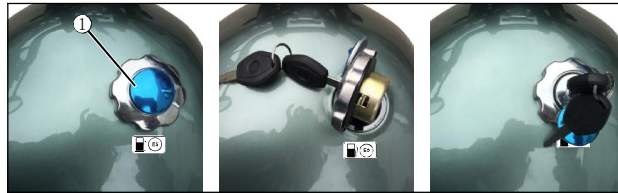
Throttle grip control the speed of motorcycle. when you want to accelerate speed, please turn the grip to the direction close to driver.

#### ④Front brake lever

When brake, please grip the right side lever gradually.

### ●Fuel tank

When the speedometer's low fuel lever warning light is on , please add gasoline immediately. First open the anti-dusty cover as ① , then enter the key and turn as clockwise, pull out the fuel tank cap with key. After fill in gasoline,close the fuel tank cap, please align the right point, press down cap then it will be close.



### Warning:

Please do not fill in too much gasoline. Do not splash gasoline on the hot engine, it is very dangerous.  
Flame is prohibited when filling gasoline  
If the gasoline go inside the carbon box, please go to the local dealer to clean or replace the carbon box. Because gasoline will make the activated carbon expire earlier.  
Check the water leaking hole around the fuel tank cap, make sure it work properly and no water go inside the fuel tank.

### Notice:

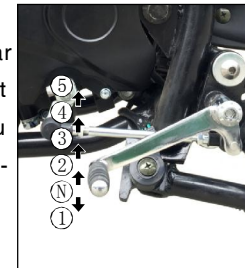
Fuel

Euro 5 version: (ES)

Other version: Unleaded fuel min. 95 Octane

### ●Shift gear pedal

This vehicle is international 5 gear engine. Neutral gear between first gear and second gear. When you change gear, please follow the rules.

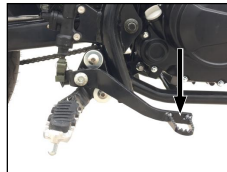


### Caution:

When it is neutral gear, the indicator will be on. Please loose clutch gradually to make sure it is really in the neutral gear. When change gear, hold the clutch lever, change gear when clutch loose completely.

●Rear brake pedal

Press down rear brake pedal (as picture). When the brake pedal working, the taillight will be on.



●Side stand

Side stand is on the left side, when park motorcycle, please make sure side stand in the right position. This motorcycle is equipped with a side stand switch. If the side stand is folded up, the engine can be started. otherwise, the engine is shut off and won't start.

**Caution:**

Please don't park the vehicle in the slope place, otherwise the vehicle may fall down.

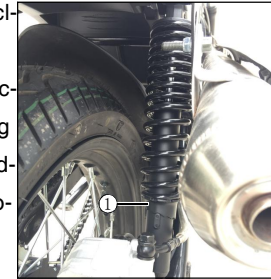
●Toolbox

Toolbox ① under the seat. Toolbox including screwdriver, sleeve, wrench.



●Rear shock absorber

The main component of this vehicle's rear shock absorber including spring and liquid damper, this shock absorber is adjustable according different road condition. During adjustment, use side stand to support the vehicle.



There's adjustable holder ① on one end of the shock absorber spring. Use the special adjustment tool to turn the adjustable holder ① to left or right, change the spring's pressure, so change the spring between tight and loose. Adjust the left and right spring same time and to same position.

●Adjustable mirror

Turn the mirror ① and the mirror rod ② can adjust the angle of mirror.



### Gasoline and oil information

#### Gasoline

Please use lead-free gasoline. Euro IV version: E5

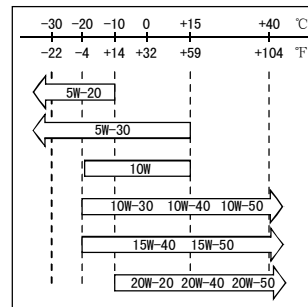
Other version: Unleaded fuel min. 95 Octane.

#### Caution:

use lead-free gasoline, spark plug will have longer life.

#### Oil

Please use SG or above SG grade engine oil which match SAE standard. Please buy oil from dealer according to the local weather, please check the follow chart to choose suitable oil.



### Engine running in

#### Top speed

All the new motorcycle, during the first 1500 km driving, not to make engine run too high speed or accelerate too much. It should avoid the rpm to beyond 80% of maximum.

#### Engine speed change

Speed should not always keep the same, it should change frequently, it help the parts running smoothly.

#### Avoid running long time in low speed

It is damage to the parts if always keep engine in a low speed, it should always change to different gear to drive.

#### The chart show the max rpm during engine run-in period

First 800 km	Under 5000 rpm
First 1500 km	Under 6000 rpm
Over 1500 km	Under 8500 rpm

**Before driving, please let oil lubricate sufficiently**

Before driving, please keep engine in idle situation for a while, in order to have enough lubrication of engine.

**First maintenance**

The first 1,000 km maintenance is the most important work. Please tighten all the screw and change oil.

**Caution:**

1,000km maintenance should follow this manual. Please pay more attention on “Caution” and “Warning” part.

**▲Special Notice**

The first engine running at 300km, please ask dealer to change oil and clean oil filter and air filter. Then follow the maintenance schedule to maintain the motorcycle.

**Before driving**



Before driving, it is necessary to check the following items.

Checking item	Points
Handle bar	1)Stable 2)Turning flexible 3)No loosing
Brake	1)Brake level and pedal has right feeling 2)No oil leaking
Tire	1)Air pressure correct 2)Pattern of tire correct 3)No crack on tire
Fuel	Have enough gasoline for driving
Light	Turn on/off all the lights
Indicator	Checking high-beam, gear, turning indicator
Horn	Correct
Oil	The level of oil correct
Throttle	1)The throttle grip work correct 2)Acceleration and deceleration correct
Clutch	Correct
Drive chain	1)Correct setting 2)Lubrication



## **Driving motorcycle**

### **Engine start**

Please turn the key to “” position, and the engine switch on right handle bar on “” position, put gear in the neutral gear, the gear indicator should be on. Press start switch, engine turn on.

#### **Caution:**

Start engine when hold the clutch lever and put gear in neutral position .

When start by electric starter, ECU will check the environment temperature and engine condition to supply necessary fuel to engine.

#### **Warning:**

Not to start engine indoor without good air ventilation. don't leave motorcycle on without monitor.

#### **Caution:**

When not driving motorcycle, don't make the engine run over speed, otherwise, engine will be over heated and damage the parts inside.

### **Using gear shift**

Gear shift system will make engine driving smoothly. Driver should change gear according to the driving speed.

### **Slope driving**

When driving in the slope place, motorcycle speed will decrease and show the power is not enough. In this case, it should reduce gear to get more torque.

When go downhill, put the gear in low position, it help engine brake. Please don't make the engine run at overhigh speed.

### **Using brake and parking**

It should completely loose throttle and gradually brake front and rear. Before completely stop motorcycle, hold clutch and change gear to neutral and check the gear indicator on or not.

**Caution:**

The new driver always want to use rear brake,it will make brake abased very fast and brake distance too long.

**Warning**

Only using front brake or rear brake is dangerous, it may slip down or lose control. Especially in wet road condition or corner, should be very carefully use brake. Suddenly brake hard is very dangerous.

Motorcycle should parking in flat ground. If motorcycle must park in slope place, please put motorcycle in first gear in case of motorcycle slip away.

**Checking and maintenance**

The follow chart show the kilometers for maintenance. When reach the kilometer, it must follow the instruction to check and make maintenance. Turning system, engine, electronic system, side stand and wheels are key important parts. It is necessary to have a professional technician to handle.

**The symbol means:** I: checking, clean, adjust C: clean R: change A: adjust L: lubrication T: tight

Maintenance period Maintenance content	Odometer (KM) (Remark 2)																Everyday check before riding	
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000		
Oil for crankcase	R																Every 2000km R	I
Oil filter screen	C																Every 2000km C	
Oil filter		R			R				R				R					
Air filter(Remark 1)																	Every 4000km clean filter if necessary please change	
Spark plug		I			I				I				I					
Valve clearance		I			I				I				I					
Gasoline filter					C				C				C					
Brake pedal		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake oil																		I
Driving chain																	Every 1000km: I, A	I
Screw	T					T					T					T		

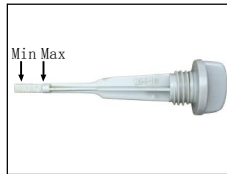
Maintenance period  Maintenance content	Odometer (KM) (Remark 2)																Everyday check before riding
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	
Driving chain(Remark 3)	Every1000km: I、L、A																
Friction disc					I				I				I				
Brake system		I、A			I、A				I、A				I、A				
Brake					I				I				I				
Front headlight beam adjustment					I				I				I				
Clutch		I			I				I				I				
Stand					I				I				I				
Suspension					I				I				I				
Screw/bolt/fasteners (Remark 3)		I							I								
Wheel(Remark 3)		I			I				I				I				
Turning system		I											I				

- \* When the mileage is over the highest on the table, please perform according to the period set on the table.
- \* Driving on dusty place, it is recommended to clean it frequently.
- \* Often drive on bad road condition, make the maintenance and service more frequently.

### ●Oil level and change oil

Check the engine oil before ride daily. Must keep oil level in the middle of max mark and min mark of the oil scale. Inspection:

1. Turn on the engine and keep it idling for 3-5 minutes.
2. Stop engine, use the main stand to support the vehicle on a flat ground. After 2-3 minutes, turn out the oil scale ① and clean it, then put it back, take out again and check the oil level. The oil level must be in the middle of max mark and min mark of the oil scale.
3. If necessary, add specific oil to the engine, but not beyond the max mark of oil scale.



### Change oil

#### Caution:

When the engine is not completely cold down, it is the best time to change oil. The body should support by supporter and keep vehicle in vertical position and fast leaking all the oil.

1. Oil drainage  
(1) Before oil drainage, put a container under the crankcase.



(2) Take out the oil scale, oil drainage bolt ① and gasket, drain out the oil completely, install the gasket and oil drainage bolt, tightening torque: 30N.m.

2. Put 1L specific oil to the engine, check if the oil level is right.
3. Install the oil scale.
4. Turn on the engine, keep it idling for few minutes, turn off the engine
5. Check the oil scale again, keep the oil level in the middle of max and min mark of oil scale, and engine no oil leaking.

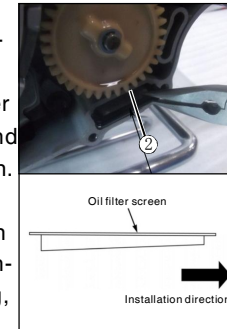
### clean the oil filter

When it's necessary, clean the oil filter.

1. Remove the right crankcase cover
2. Take out the oil filter ②, clean it and put back according to the instruction.

#### Attention:

- (1) From the dust on the oil filter, can check out if the engine is in good condition. If there's too much metal dreg, need to inspect the engine.
- (2) Can't clean the oil filter by fuel or other liquor which is harmful to rubber.
3. When install right crankcase, tighten the position bolt first, then tighten other bolts diagonally. Tightening torque: 30N.m

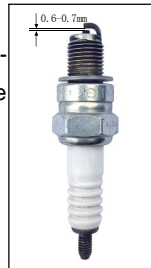


### ●Spark plug

Using small metal brush or spark plug cleaner to clean carbon on the spark plug in the first 1000 km driving, and do it after every 4000 km driving.

Every 8000 km driving, spark plug should change immediately.

Spark plug: NGK CPR8EA



### Caution :

Spark plug should not tighten too much in order not to damage cylinder header thread.

### ●Throttle cable adjust

1. Turn both side of throttle grip to check if it's reaction is fast or not.
2. Check the throttle cable to measure its travel degree, it should be  $10^{\circ} \sim 15^{\circ}$  degree.



Adjust the free stroke of throttle grip according to the following steps.

- (1) Remove the throttle cable anti-dust cover.
- (2) Loosen the nut ①
- (3) Turn the adjustable nut②, keep the free stroke of throttle grip between  $10^{\circ}$  and  $15^{\circ}$  .
- (4) Tighten the nut ①.



### ●Clutch adjust

Clutch travel distance should be around 5-15mm, if found this distance is not correct. Please follow the steps to adjust:

- (1) Move clutch cable cover.
- (2) Loose screw ①.
- (3) Loose or tighten the adjust screw ②, make the correct clutch travel distance.
- (4) Tighten screw ①.



If clutch cable lever adjust to maximum and still not correct, please adjust again cable and the screw ① and ②.

**●Engine idle adjustment**

This vehicle motor will adjust the idle automatically. If you need to change, please contact professional dealer.

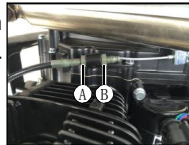
**●Throttle valve**

The vehicle engine idle may be down because the pollution of throttle valve. It need to clean the throttle valve every 5000 km driving .

When clean the throttle valve, disconnect anode and cathode of battery, stop the sensor of throttle valve, take away rubber pipe which connect the throttle cable and air filter. Then take away the throttle valve.

Open the valve bottom cover, and spray the cleanser inside the valve and using brush to clean dust and carbon.

After clean, mount the valve and all other parts as original and try to start engine.

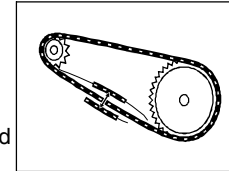


**●Driving chain**

The life of driving chain depending on your maintenance. Not properly maintenance will cause its life shorter.

**Driving chain adjustment:**

Every drive 1000 km, please adjust driving chain to make the degree of chain droop as 10-20mm. according to your driving condition, it may need to adjust chain frequently.

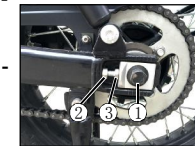


**Warning:**

All the above suggestion is the maximum adjustment period, actually it need to check chain every time before you drive. If the chain is too loose, it may cause the chain fall off or make big damage to the engine.

Please adjust chain according to following way :

- (1) Please use supporter to support vehicle.
- (2) Loose the rear axle screw ①.
- (3) Loose the locker screw ②.
- (4) Turn left or turn right to adjust screw ③, to adjust the chain properly. When adjust the chain, it must keep the front chain wheel and rear chain wheel in the middle and in the



same line. To help you doing this adjustment, there's basic scale on the swing arm and every chain adjustment, they can match and as reference from beginning to end. After match and set the degree of chain droop to 10-20mm, tighten the rear axle screw and do final check.

**Caution:**

When you change to the new chain, please check if the chain wheel is ok or not. If necessary, please change it.

Checking chain, it should check the followings points:

- (1) Pin is tight or not.
- (2) Chain wheel situation.
- (3) Single chain is rusty and dry or not.
- (4) Single chain damage or not.
- (5) Adjust chain if too loose.
- (6) Adjust the loose chain.

If the chain have above problem, it may come from chain wheel. It must to check following items of chain:

- (1) Chain wheel tooth may already abrase too much.
- (2) Broken or damage chain tooth.
- (3) The chain wheel screw may loose.

**Lubrication of chain wheel**

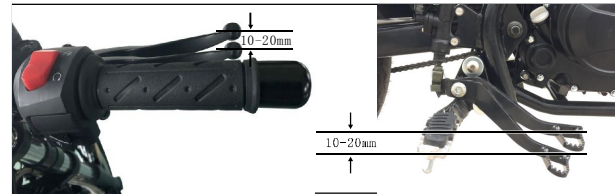
It is priority to buy professional chain oil for lubrication. And also it could use engine oil or other lubrication oil for lubrication.

**● Brake**

This vehicle front and rear brake are all disc brake. Correct operation for brake is very important of safe driving. It should check brake system in professional store.

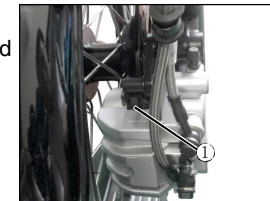
**Adjust brake**

- (1) The front brake level travel distance is 10-20mm.
- (2) The rear brake pedal travel distance is 10-20mm.



**Brake pad**

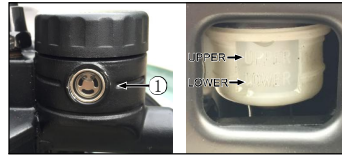
Please check the front brake pad if it has been abraded mark until the scale ①. If already reach to point ①, it should change brake pad.





### Brake oil level

When the brake pad already have been abraded, the brake cylinder oil will going to the oil pipe automatically, so the brake cylinder oil level will be decreased. Front brake cylinder on the right side of handle bar. If the oil level under the cylinder minimum scale ①, please add brake oil. The rear brake oil tank is in the middle of vehicle, please make sure the oil level between Lower to Upper scale. If the level under lower scale, please add brake oil. Please check brake oil level frequently.



#### Caution:

This vehicle is using DOT 4 brake oil. Do not use the second hand oil or the remaining oil from last maintenance. Because the oil exposed in the air will absorb water. Please do not spray oil to any painting surface, it will corrode the surface.

#### Brake system

Please check the brake system every day as followings:

- (1) If have any oil leaking from front and rear brake.
- (2) Try brake lever and pedal, it should have certain bounce.

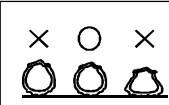
(3) Check brake pad condition.

#### Warning:

If brake system or brake pad need to change, please go to professional dealer. When finish this change, please grasp several times brake lever and press down brake pedal.

#### ●Tire

The correct air pressure of tire will provide stable, comfortable and durable driving feeling.



Front tire pressure	200 ± 5 kpa
Rear tire pressure	225 ± 5 kpa

#### Caution:

Please check tire condition when the tire is "cold" .

When the middle patten of tire already reach to the certain degree, please change to new tire. Please follow the chart:

Min pattern depth of tire	
Front tire	1.6mm
Rear tire	2.0mm

**Warning:**

Please do not try to repair any damage tire. It may affect the wheel balance and stable. Not correct air pressure will damage tire surface quickly. The air pressure not enough will cause wheel slip or fall off and even damage rim, it may cause the vehicle out of control.

**●Seat assembly and dis-assembly**

Put the key inside ① locker which is on the left side cover, and turn the key to clockwise direction, it will open the seat. Then pull the seat to rear and take out the seat completely.



When assemble the seat, please push the seat from rear to front, and the hook ② to the point ③, slightly press down seat to fix it.



**●Air filter maintenance**

The air filter should have maintenance regularly. If the driving condition is not good, it should check more for air filter.

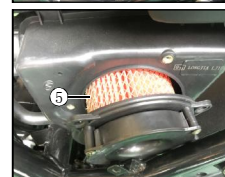
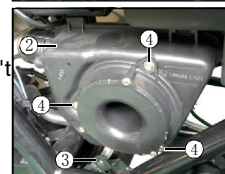
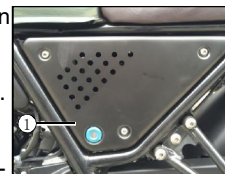
(1) Remove the left side cover ①, can see the air filter ②.

(2) Remove the side cover bracket ③.

(3) Remove the 3 bolts ④ on the element of air filter, take out the element of air filter.

(4) Clean the air filter element. If can't clean the element, change to a new one.

(5) Installation takes place in reverse order to disassembly.



**Note:** paper air filter element can't be cleaned.

**Caution:**

Gasoline or other flammability oil is not recommended for clean air filter.

### ●Catalyst

In order to reach homologation standard, this vehicle muffler has catalyst.

Catalyst contains rare metal, it will clean the harmful exhausting air which include Co, oxycarbide and oxynitride. After chemical treatment, those will change to  $Co_2$  and oxygen. It is very important for catalyst, the faulted catalyst will make more pollution to the air or damage engine. If change is necessary, please contact your dealer.

#### Caution:

Catalyst area is high temperature area, please do not touch.

### ●Activated carbon canister

This motorcycle equipped with fuel evaporation controller: activated carbon canister

The activated carbon canister is located above the engine. It's filled with activated carbon particle which can absorb the steam. The activated carbon canister can control the evaporation of the fuel steam to air efficiently, save fuel and protect the environment.

### ●Fuel injection and oil path

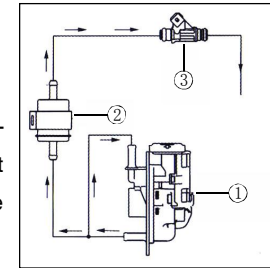
Fuel pump ① has two connectors, fuel through one connector of fuel pump to gasoline filter ② to the injector ③, finally spray the fuel and air inside engine. If the pressure is too much, fuel will go back to fuel pump through one connector.

Connecting fuel pipes, please follow the drawing.

### ●Parts lubrication

Proper lubrication will keep your motorcycle every single part running smoothly and increase durability. after long driving or raining, we suggest you make

lubrication maintenance. The main points as followings:



lubrication oil

lubrication grease

① rear brake pedal axle

② side stand connector and spring hook

③ gear shift pedal axle

④ throttle cable

⑤ front brake lever axle

⑥ clutch lever axle

### ●Battery

Battery under the seat. This vehicle battery is electrolyte maintain-free type. First time use, please ask dealer to add electrolyte, in future it doesn't need to add anymore. Take out battery, please follow the steps:

- a、 Turn off motorcycle.
- b、 Take off seat.
- c、 Take off screw and battery plate.
- d、 First dis-connect negative pole(-) and dis-connect positive pole(+).
- e、 Take out battery carefully. Put the battery back in opposite sequence.



#### Caution:

When mount the battery, it must connect cable correct. If any wrong, it will damage battery and wire harness. The red cable must connect to positive pole(+), and black pole connect to negative pole(-). Check or change battery please turn off motorcycle.

### First time using, please follow the steps:

Take off the seal paper on the top of battery, and add special electrolyte into battery and close the cover to wait for 30 minutes.

After add the electrolyte into new battery, charging battery will increase durability.

When add the electrolyte, please follow the steps:

- a、 Put the battery on the flat ground, and take off the seal paper.
- b、 Take out the container which contain the electrolyte, and remove battery cover stripe as plug. Caution: please do not break the stripe, it will be as cover for battery.
- c、 Put the electrolyte into the 6 holes and fill in.

#### Caution

It must put battery in the flat ground, otherwise electrolyte can not fill in completely.

- d、 Please check the left and right side, it must have bubble come out from side pillar and wait for at least 20 minutes.

If both side (left and right side) not bubble come out, please pat slightly to the battery bottom 2 or 3 times, and check if any bubble come out again.

e、 After electrolyte completely fill in and pat slightly to the battery bottom several times, and take out the vessel.

f、 Put the strip into the battery 6 holes separately, and press down the strip until it flat with the surface.

After fill in electrolyte, please do not take out strip or add any water or electrolyte.

**Change battery, please take note as following:**

Change battery should check the type is correct or not. If battery type not correct it will damage vehicle and bring problem for circuitry. If don't ride motorcycle for long time, please remove battery from motorcycle and charge 1 time every month.

**Warning:**

Battery will make exposure air, be careful with spark, flame. Battery including vitriol, it is not allowed to contact electrolyte. It will hurt skin or eye. Battery is dangerous poison material. Not allow kids touch.

● **Fuse change**

The fuse box under the seat of driver, on the side of battery.

The fuse box spec as drawing:

If fuse break many times, it means short circuitry or overload of electric. Please ask your dealer to check.



**Warning:**

When checking or change fuse, please turn off the power. Please do not use the fuse which not match this vehicle spec, otherwise it will bring serious problem to electric circuitry, and even will burn the vehicle or lose engine power.

### ●Front headlight adjustment

Front headlight beam can be adjusted in vertical direction. The beam adjust screw ① locate in the both side of front headlight. Please use 13# wrench separately loose front headlight left and right side screw①, adjust the beam to suitable position and lock the screw①.



### Caution:

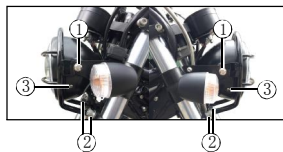
When adjust the beam, driver should be on the seat and keep the vehicle in the vertical position.

### ●Bulb change

When change broken bulb, please use the same specification bulb. If the specification not the same, it will bring problem for circuitry. Suggest you change bulb in your dealer's shop.

### Front headlight, position light change

(1) Take off the screw 2 as picture ①, take out the screw in picture ②, remove the headlight fender.



(2) Remove the screws in picture ③, take off lamp cover, take out bulb, change to new bulb.

(3) Take out the position light ④, change to 12V5W bulb.

(4) Assemble back light.

Headlight bulb: 12V 35W/35W

Front position light bulb: 12V 5W



### Rear light(brake and rear position light) change

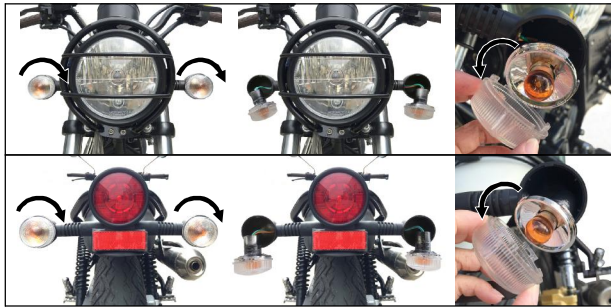
Brake light, rear light ① are all LED light, if need to change, please contact your dealer.



### Front, rear turning light bulb change

(1) Turn the lamp cover in clockwise direction, take out bulb to change R 10W, 12V 10W bulb.

(2) Assemble back.



### Store information

#### Store

If need to store vehicle in long period, please take certain maintenance to protect vehicle:

1. Change engine oil.
2. Lubricate driving chain.
3. Make the fuel tank and injection system as empty as possible.

### Caution:

Gasoline stored in long time may go bad, it will be very difficult to start.

### Warning:

Gasoline is very flammable, when you empty the gasoline, please keep away spark or firework.

4. Take off spark plug and fill in 15-20 cm<sup>3</sup> oil into cylinder, then start engine several times. It make oil spray to every part of cylinder, then mount spark plug again.
5. Take out battery, put it separately in somewhere. But not too cold and avoid exposure under sunshine.
6. Clean and dry motorcycle.
7. Make the tire air pressure properly.
8. Cover motorcycle and store it in the place where temperature not change too big. Don't put the motorcycle under sunshine.

### End of store and using

If store over 4 months, please change oil.

Check battery and all other parts and test bike first.

**Specification****Size&Weight**

Length	Upper license plate 1940mm Lower license plate 1995mm
Width	760mm
Height	1060mm
Wheel base	1350mm
Seat height	755mm
Weight	126kg
Front wheel axle load	99kg
Rear wheel axle load	187kg

**Engine**

Engine type	152FMI-5P
Bore×Stroke	52.4×57.8(mm)
Displacement	124.7ml
Max power	6.8kw/8500 r/min
Max torque	Upper muffler 8.5N·m /6250r/min Lower muffler 8.6N·m /6500r/min
Ignition	ECU
Compression rate	9.2±0.2:1
Start	Electric start

**Transmission**

Clutch	Wet multi disc clutch
Gear shift	Five gears
Frist reduction gear	3.350
Final reduction gear	45T:3.214 50T:3.571
First gear ratio	3.077
Second gear ratio	1.789
Third gear ratio	1.304
Fourth gear ratio	1.091
Fifth gear ratio	0.929
Intake valve clearance	0.04-0.07mm
Exhaust valve clearance	0.04-0.07mm

**Frame**

Front suspension	Hydraulic shock
Rear shock absorber	Hydraulic monoshock
Brake method	CBS
Front brake	Disc
Rear brake	Disc
Front rim	2.50×17
Rear rim	3.00×17
Front tire	100/80-17 52S or 52H or 52P
Rear tire	120/70-17 58P or 58H

**Electric system**

Battery	12V 7AH
Magneto	Permanent magnet
Front headlight	12V 35W/35W
Rear light	12V 1W/5W
Turning light	12V 10W
Fuel injection	12V
ECU	12V

**Capacity**

Fuel tank	13L±0.1
Oil tank	1.0L

**Performance**

Max speed	88km/h
Climb ability	≥20°
Brake distance	≤7m(30km/h)
Fuel consumption	≤367(g/kw.h)
Loading	One passenager&driver
Gasoline type	Euro 5 version: E5 Other version: Unleaded fuel min. 95 Octane
Fuel consumption	Upper muffler 45T/50T:2.1L/100km Lower muffler 45T:2.1L/100km 50T:2.3L/100km
CO <sub>2</sub> emissions	Upper muffler 45T:48g/km 50T:52g/km Lower muffler 45T:49g/km 50T:53g/km



