



RX6

Owner's Manual

The motorcycle can be used on road only and by one driver with only one passenger. The user should read the user's manual carefully before using the product. The user shall have a proper command of basic operation functions, usage methods and other common sense for the model.

The data descriptions, technical specifications, and performance parameters labeled in the manual are compiled based on the latest status. No entities or individuals shall be allowed to reproduce any part of the manual without the company's written approval. We sincerely wish that you can tell us your opinions on the design, manufacture, or quality of the product. Please inform us of your opinions or suggestions by letter for our timely improvement.

There is no description of repairing in this manual. For repairing, the users can refer to Component Catalogue and Maintenance Manual for a better understanding of the name of the components, installation structure, faults, maintenance methods and others. For more information, please contact the dealers or the service station. The company will provide you with the best and fastest services.

Please purchase the original genuine parts and special oil manufactured by our company.

The pictures in this manual are for reference only, please refer to the actual product. If there are some inconsistencies between your motorcycle and this operation manual, the distribution and maintenance unit will provide you with correct guidance at any time. We reserve the right to make changes at any time.

Security information

In order to ensure the safety of users and others, please operate strictly in accordance with the security information and driving steps provided in the operation manual. The security information warns the users of potential hazards to avoid injuring themselves and others.

This manual contains many important security information. Please read it carefully.

Symbolic meaning of security information in the User's Manual



Danger

It indicates there is potential high hazard. Failure to follow the instructions will lead to personal injury or death.



Warning

It indicates there is potential moderate injury hazard. Improper operation may cause personal injury and property safety.



Caution

It indicates a potential danger that may cause damages to the motorcycle if any misoperation.



Suggestion

The most efficient service information is available for faster warranty service and more understandable instructions.

CSC Motorcycles: 1331 W Foothill Blvd, Azusa, CA 91702

Customer service hotline: 4007003088 For more information, please visit our website:

www.cscmotorcycles.com

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Caution

Please read this manual carefully before using the motorcycle!



Danger

1. Strictly abide by traffic regulations.
2. It is prohibited to drive a motorcycle without a motor vehicle license and driving license.
3. Please don't lend the motorcycle to the one without driver's license.
4. In order to ensure driving safety, it is forbidden to drive after drinking or taking medicine.
5. This motorcycle model cannot be used for racing competitions. If mechanical accidents and personal injuries are caused thereby, the consequences shall be borne by yourself.
6. People with mental illness, history of mental illness, heart disease, deaf-mutes, and the disabled are prohibited from driving the motorcycle.



Caution

1. After unpacking, please check the attached accessories and various data according to the packing list.
2. This model can only carry the driver and one passenger. The maximum payload of the motorcycle is 330 lbs. The payloads of the plastic trunk and side box are both 11 lbs. The payload of the aluminum alloy trunk is 10 lbs, and the payloads of the aluminum alloy side box are both 20 lbs.
3. The motorcycle marked with ethanol gasoline must strictly use ethanol gasoline, otherwise, it will reduce the power, economy, and safety of the motorcycle, and shorten the service life of the motorcycle.



Warning

1. Please wear a helmet, dust-proof glasses, gloves and other protective equipment during driving. Do not hang articles on the steering handle, otherwise driving safety will be affected. Drivers and passengers should pay attention to the high temperature of the exhaust muffler to avoid contact and scald.
2. It is prohibited to wear loose clothing, flip-flops etc., as these may easily hook on the operating handle and accessories etc., and cause a safety hazard.
3. Do not refit any part of the motorcycle, otherwise, the reliability, stability, and comfort of the motorcycle could be affected.

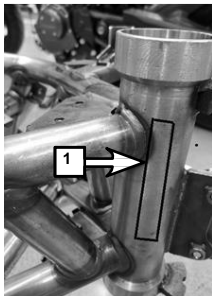


Suggestion

1. This operation manual is one of the essential products of the motorcycle. When reselling, please hand over this manual to the new owner.
2. When adjusting the valve clearance, please visit a professional motorcycle maintenance shop or the company's special maintenance service center.
3. During the running-in period or warranty period, the user shall regularly go to the dealer or the company's maintenance service center for regular maintenance and adjustment.

Vehicle identification code (VIN) and engine number

Vehicle identification number (VIN), engine number and vehicle certificate are used to apply for driving license and motorcycle account.



1. The vehicle identification number (VIN) is printed on the right side of the frame riser.



2. The vehicle nameplate is riveted on the suspension support pipe on the right side of the frame.



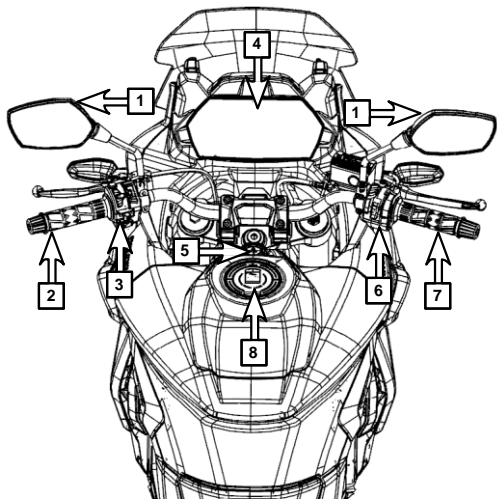
3. The engine number is engraved above the left crankcase body of the engine.

Please fill in the corresponding number for future inquiry:

Engine No.		Vehicle VIN code	
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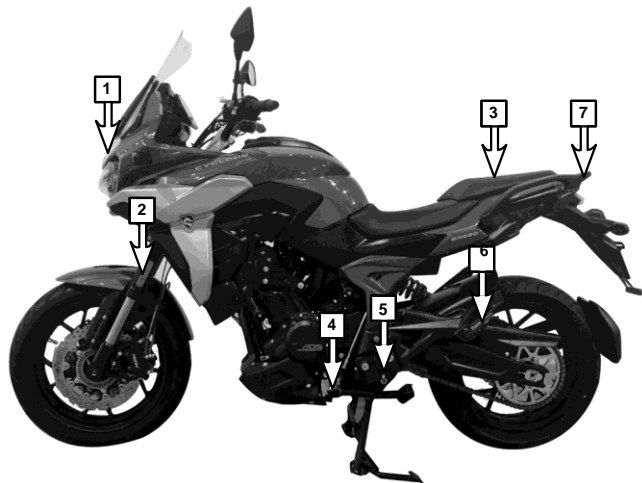
Instruction to users

Introduction of the whole motorcycle



- | | | | |
|--------------------|-----------------------------|----------------------------|------------------------|
| 1. Rearview mirror | 2. Left steering handle | 3. Left switch combination | 4. Instrument assembly |
| 5. Ignition lock | 6. Right switch combination | 7. Refueling handle | 8. Fuel tank lock |

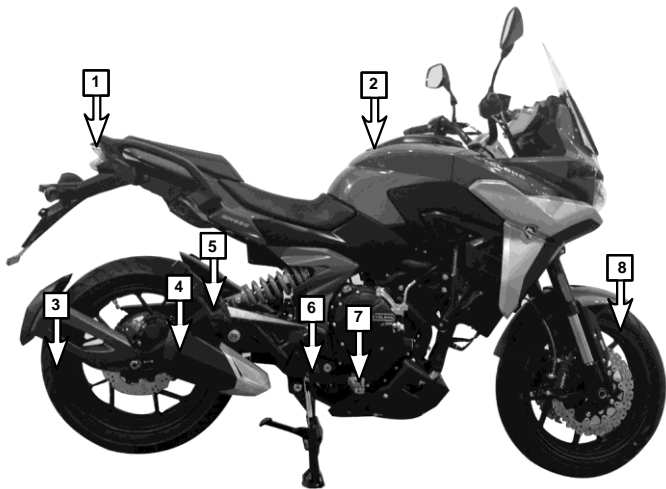
Introduction of the whole motorcycle



1. Headlamps 2. Front shock absorber 3. Seat cushion 4. Shift arm 5. Left front pedal 6. Left rear pedal 7. Rear armrest

Instruction to users

Introduction of the whole motorcycle



1. Tail light 2. Fuel tank 3. Rear wheel 4. Exhaust muffler 5. Right rear pedal 6. Right front pedal 7. Rear brake pedal 8. Front wheel

Ignition lock



The ignition switch mainly controls the ignition circuit and lighting circuit, and its operation is as follows:

Name	Function description
Keyless start	Unlock the key within one meter from the vehicle, press the start switch down once, the whole vehicle will be powered on, press and hold the start switch down, and the engine will be ignited.

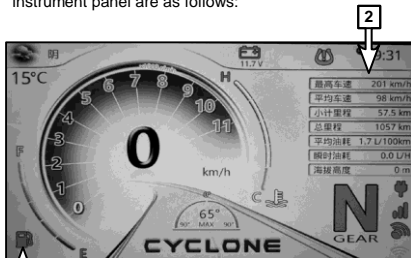
**Warning**

The motorcycle must be parked in a safe place and the steering handle must be locked to prevent theft.

Instruction to users

Instrument indicator

The main indication functions of the instrument panel are as follows:



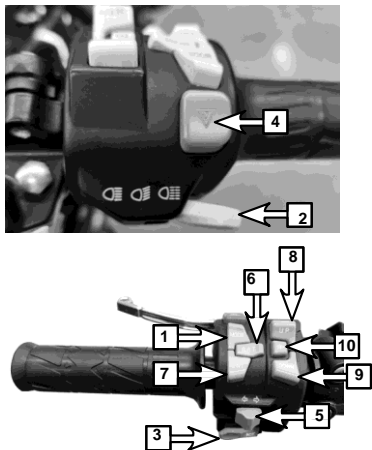
Danger

1. When the tachometer indication exceeds the red area (the driving speed should be controlled outside the red area as far as possible), the driver should pay attention to the road conditions to avoid falling.
2. It is forbidden to drive at high speed for a long time (the tachometer pointer should be controlled outside the red area) to avoid damage to the motorcycle engine.

Name	Function description
1. TFT display	Display the current fuel volume, vehicle speed, water temperature, gear, time, temperature, battery, voltage, average fuel consumption speed and mileage, etc.
2. Signal indicator lamp	<p>When the left turn signal lamp is on, the "↶" lamp will be on.</p> <p>When the right turn signal lamp is on, the "↷" lamp will be on.</p> <p>When using the high beam, the high beam indicator "≡" will be on.</p> <p>Fuel low level alarm indicator "⛽" indicates fuel</p> <p>Too little fuel in the tank, please refuel as soon as possible. EFI fault indicator "⚙️" indicates that the EFI system has a fault.</p> <p>N indicates that the current gear is neutral.</p>
<p>Note: please refer to the instrument manual for more detailed explanation of the instrument</p>	

Left handle switch

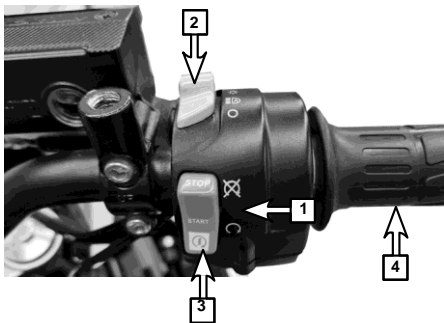
The main functions of the left handle switch are as follows:



Name	Use instruction
1. MODE: key	Short press to switch the main interface of different styles. Long press (2s) in the sub interface to return to the superior menu
2. Beam-altering switch	When the lighting switch button is pressed to the "☀️" position, the high beam is turned on. When the lighting switch button is pressed to the "☁️" position, the low beam is turned on.
3. Horn button	When the motorcycle needs to sound, press and hold the "🔊" button.
4. Emergency switch	When the switch is pulled to the "⚠️" position, the left and right turn signals flash simultaneously.
5. Turn signal switch	When the turn signal button is set to the "↶" position, the left turn signal circuit is connected. When the turn signal button is set to the "↷" position, the right turn signal circuit is connected.
6. SET: select key	Short press to cycle through sub menus at all levels
7. ENT: confirm key	Short press to enter submenus at all levels
8. UP: wind up button	Press and hold the button, the electric windshield gradually rises and loosens the button to stop.
9. DOWN: wind down button	Press and hold the button, the electric windshield will gradually drop, and release the button to stop
10. Spotlight switch button	When the user adds a spotlight, press this button to turn the spotlight on

Right handle switch

The main functions of the right handle switch are as follows:



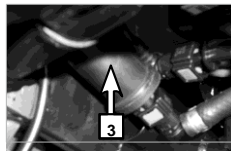
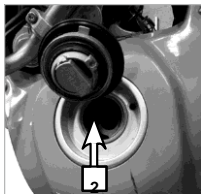
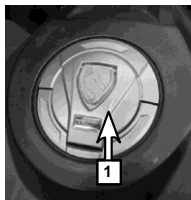
Warning

During electric starting, the starting time shall not exceed 5s each time, and the interval shall not be less than 10s each time. If the starting cannot be successful for 3 consecutive times, the inspection shall be carried out.

Name	Use instruction
1. Flameout switch	When the switch is set to the "⊗" position, the motorcycle will quickly turn off. When the switch is set to the "○" position, the motorcycle can be started.
2. Lighting switch	Turn the switch to the "☀" position, the instrument indicator lamp, tail lamp and position lamp circuits are connected. Turn the switch to the "☁" position, the instrument indicator lamp, tail lamp and position lamp circuits are connected. Turn the switch to "●" position, the lighting system will be turned off.
3. Electric start button	If the motorcycle needs electric start, please press the "Ⓢ" button.
4. Refueling handle	Control the amount of mixed gas flow.

Fuel tank

The fuel tank has a capacity of 5.5 gallons and uses unleaded gasoline ≥ 95 .



Name	Use instruction
1. Fuel tank (ON)	Hold the key and turn it clockwise to open the fuel tank cap
2. Fuel tank (OFF)	Align the fuel tank cap with the filler and turn it counterclockwise to close the fuel tank
3. Fuel filter	Fuel must be filtered through a fuel filter to ensure that the fuel is clean.

 **Danger**

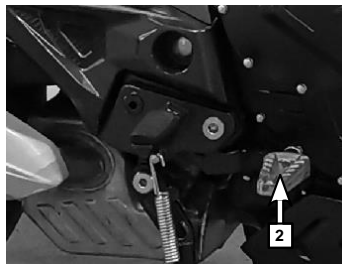
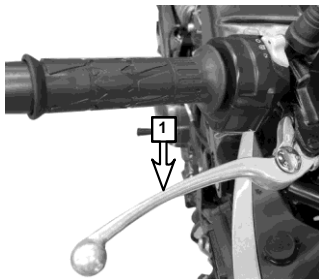
1. The motorcycle should be switched off when refueling and should be carried out in a well-ventilated area with the fuel no higher than the neck of the fuel tank.
2. When adding fuel, keep away from sparks and flames. Smoking is strictly prohibited to avoid accidents such as motorcycle explosion and fire.

 **Caution**

Strictly use the gasoline of the specified model, otherwise, it will affect the service performance of the motorcycle; The ethanol content of motorcycles marked with ethanol gasoline shall not exceed 15%, otherwise, the power, economy and safety of motorcycles will be reduced, and the service life of motorcycles will be shortened. Motorcycle damage caused by improper use of gasoline does not belong to the warranty scope of Zongshen Motorcycle.

Instruction to users

Control part



The brakes of this model are equipped with front and rear disc brakes, and the braking performance is reliable. Braking is related to personal and property safety and must be regularly and correctly adjusted and maintained to achieve the goal of safe driving.

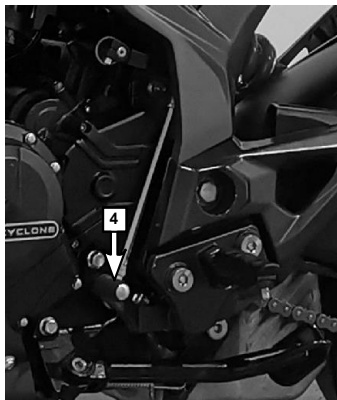
Name	Use instruction
1. Front brake handle	It controls the running speed of the front wheel, and its working stroke is: 10 mm~20 mm.
2. Rear brake pedal	It controls the running speed of the rear wheel, and its working stroke is: 20 mm~30 mm.





Suggestion

For adjustment and maintenance of braking, it is recommended to visit our special maintenance service center for this service from time to time.

Control part



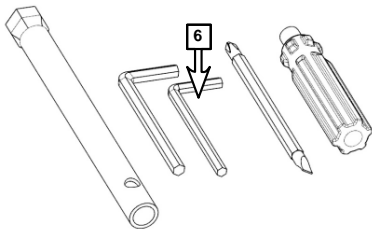
Name	Use instruction
<p>4. Speed change pedal</p>	<p>This motorcycle adopts a six-speed transmission mode with constant engagement and two-stage transmission. Please reduce the accelerator when shifting gears. The shifting way is shown in the left figure.</p> 

 Suggestion

1. This model is a slipping clutch and the gear must be shifted to neutral at start-up.
2. In case of slipping or incomplete separation of the clutch, please go to a professional motorcycle maintenance shop or the company's special maintenance service center for repair.

Instruction to users

Control part



Name	Use instruction
5. Refueling handlebar	It controls the amount of mixed gas flow, and its free stroke is: 2 mm-6 mm.
6. On-board tools	The accompanying tools are under the front and rear seat cushions, which are suitable for some simple adjustment and maintenance during use. The specific list of accompanying tools is as follows: 1 piece of spark plug sleeve 1 piece of double head screwdriver handle 1 piece of double head screwdriver Allen wrench 5 (1 piece) Allen wrench 6 (1 piece)

Load Limit



This model is designed to carry only one driver and one passenger. Please strictly follow the following requirements, otherwise the safety and stability of the motorcycle will be affected.

Factory-determined maximum payload of the finished vehicle : 330 lbs.



Danger

1. Strictly follow the above instructions. If traffic accidents occur due to overloading of users, causing injuries or deaths, the consequences will be borne by the user.
2. The company will not provide three guarantees service for luggage racks, large shelves and rollover large shelves caused by users' illegal operation, such as paint falling, deformation and surface chromium removal.
3. Before driving, in order to prevent the goods from loosening and causing danger, please be sure to fix the goods firmly and keep the weight of the goods as close to the center of the motorcycle as possible so as to keep the weight of the goods on both sides balanced.

EFI System

The main function of the EFI system is to atomize the fuel supplied from the fuel tank, mix it with air to form a uniform combination gas and introduce it into the combustion chamber. The EFI system mainly consists of an electronic control unit (ECU), a nozzle, a throttle valve body assembly, an intake air temperature, a pressure integrated sensor, an engine temperature sensor, an ignition coil, a crankshaft position sensor, an oil pump assembly and an oxygen sensor.

The EFI management system can accurately control the mixing ratio of air and fuel entering the engine cylinder, combustion process and waste gas conversion, so as to optimize the engine performance, improve the drivability and strictly control the air pollution caused by exhaust gas from motorcycles.

The motorcycle EFI system is equipped with an EFI fault indicator lamp on the meter. When the ignition system circuit is turned on, the indicator lamp will be on for a long time as a reminder under normal working conditions. If there is a fault, the lamp will not work. When the engine is started, the lamp will not illuminate under normal working conditions. In case of failure, the lamp will turn on or flash continuously.

Check the EFI system with a fault diagnosis instrument to see if there is any fault information. If there is any fault, replace the corresponding parts of the EFI system;

if there is no fault, please check according to the following contents:

1. Check whether the line connection is normal and damaged;
2. Check whether the voltage is above 9V;
3. Check whether the vehicle insurance and EFI insurance are damaged;

4. Check whether the oil circuit is normal and whether the oil pipe is blocked, squeezed or damaged to ensure a smooth

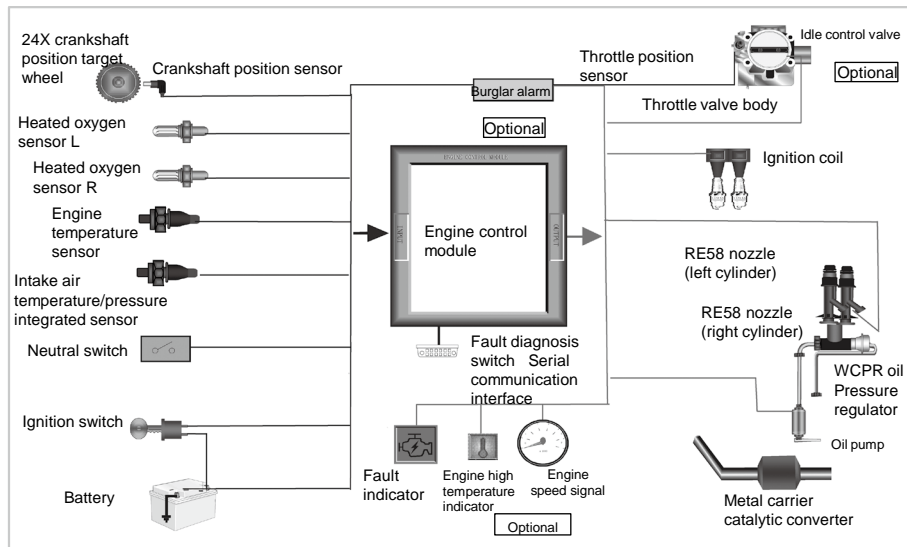


Warning

1. It is strictly prohibited to start the oil pump without sufficient fuel in the oil tank to submerge the oil pump, otherwise the oil pump may burn out.
2. External electrical equipment (such as: navigation, traffic recorder, burglar alarm, etc.) power line should be directly connected to the battery, not damage the cable of the vehicle itself, and external electrical equipment should be more than 150mm away from the electronic spray parts.
3. Clean the filter element of vehicle air filter every 5,000 miles; Clean the throttle valve body; Replace the fuel filter.
4. When the fault indicator lights up while the vehicle is running, it should be repaired at the repair point in time.
5. The motorcycle EFI system has passed the commissioning before leaving the factory. When the EFI system fails, it is strictly prohibited to adjust the idle screw on the throttle valve body and to replace or adjust the components of the EFI system. If you have any questions, please contact with our special service station for maintenance.

EFI System

Structural schematic diagram of EFI system

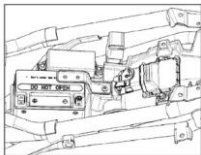


Instruction to users

EFI System

Function introduction and installation location diagram of EFI parts

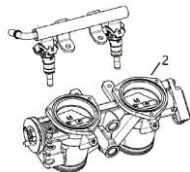
1. Engine electronic control unit (ECU): collect, process information and issue instructions



2. Throttle body assembly: control intake air volume, idle speed and throttle position parameters



3. Nozzle: atomize the fuel and inject it into the combustion chamber of the engine



4. Fuel pump: provide the specified oil pressure for the oil circuit



EFI System

Function introduction and installation location diagram of EFI parts

5. Intake pressure temperature sensor: test Intake pressure, intake temperature and atmospheric pressure



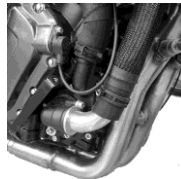
7. Oxygen sensor: measure oxygen content in exhaust gas



6. Ignition coil: high voltage is generated and sent to spark plug for ignition



8. Crankshaft position sensor: measure the crankshaft position, which is ECU
Provide basis for executing fuel injection and ignition control



Instruction to users

EFI System

Function introduction and installation location diagram of EFI parts

9. Thermostat: senses the temperature of engine cooling water



Caution

1. It is strictly forbidden to disassemble the ECU and other EFI components while the whole vehicle is charged.
2. When disassembling and installing EFI components, do not drag and drop EFI components and their wiring harnesses excessively.
3. When installing parts equipped with rubber sealing rings such as nozzles and intake pressure temperature sensors, appropriate amount of lubricating grease should be applied to the sealing ring to avoid damage to the sealing ring during assembly.
4. When the oil pipe is disconnected, the oil pipe shall be covered with a safety cloth to avoid the accident caused by the disconnection of the oil pipe.
5. It is prohibited to apply any applied voltage to EFI components.

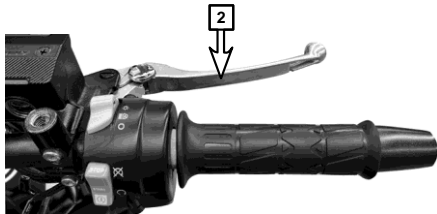
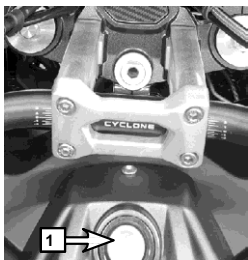
Inspection before driving

Before driving, check in accordance with the following requirements to ensure users' safe driving and successful driving.

No.	Items	Check	Remark
1	Fuel system	Inspect the fuel capacity and fuel valve for oil leakage	<p>According to the mileage and working conditions, three-level maintenance shall be carried out for motorcycles regularly:</p> <p>Level I maintenance: From 500 miles~1,000 miles, taking lubrication and fastening as the main contents. Level II maintenance: From 2,000 miles~4,000 miles, the main contents are inspection, adjustment, lubrication and fastening. Level III maintenance: 4,000 miles ~ 6,000 miles, with overall analysis, cleaning, inspection and adjustment, lubrication and fastening, replacement of worn parts and elimination of hidden dangers as the main tasks. It is recommended to carry out regular three-level maintenance in the company's special maintenance service stations.</p>
2	Lubricating oil	Check whether the lubricating oil is deteriorated and whether the capacity is lower than the lower scale line	
3	Electrical part	Check whether the power supply and energization of the electrical parts of the finished vehicle are normal	
4	Battery	Check whether the voltage is lower than 12V	
5	Brake handle	Check whether the free stroke is within the specified value	
6	Rear brake pedal	Check whether the brake pedal stroke is within the specified value	
7	Throttle handle	Check the flexibility of the throttle handle and the stroke (2 ~ 6) mm of the throttle handle	
8	Steering mechanism	Check the flexibility and stability of steering mechanism	
9	Drive chain	Check the storke (15~25)mm, wear and lubrication of the chain.	
10	Tire/wheel	Check tire pressure and wear	
11	Lighting/signal indicator	Check whether the lighting lamp/signal lamp/indicator lamp is working	
12	Brake	Check the wear of brake shoes and whether the braking performance is good	
13	Main bracket/side bracket	Check the main bracket/side bracket for bending deformation and good return	
14	All-vehicle fastener	Check whether the fasteners of the finished vehicle are loose or fall off	

Operation guide

Starting and preheating



During electric starting, the starting time shall not exceed 5s each time, and the interval shall not be less than 10s each time. If the starting cannot be successful for 3 consecutive times, check it. Cold car startup and preheating steps are as follows:

1. Turn on the one-touch switch, wait for the fuel pump to run for several seconds and stop, and check whether the instrument indicator light of the motorcycle works normally.
2. Hold the front brake handle or step down the rear brake pedal, hold the clutch handle or the engine is in gear N, turn on the electric start control switch or long press the one key start switch to start the engine.

Caution

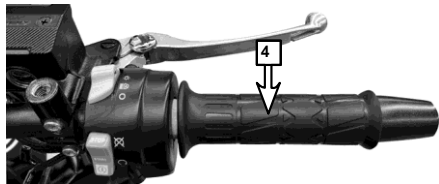
If it cannot be started electrically, press the one button start switch to power off, wait for a few seconds to protect the battery, and then restart it. Do not exceed 5S at each start.

Starting and preheating



3. Press the electric start button with the thumb of your right hand.

4. Do not refuel when starting the motorcycle; After startup, warm up for 3~5 minutes at 1500 ($1 \pm 10\%$) rpm at idle speed. Only after the motorcycle is warmed up can it run normally.



Warning

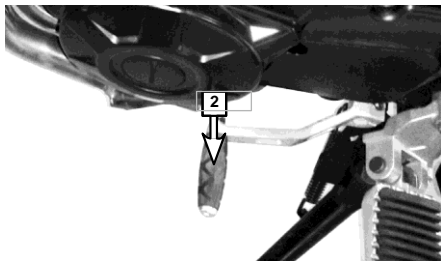
1. In order to prolong the service life of the motorcycle, when driving under cold conditions, please make sure that the user warms up for 3~5 minutes before driving, and at the same time stop high-speed driving. During preheating, it is forbidden to increase the throttle for preheating.
2. If the engine cannot start, first turn off the ignition lock key, wait for about 1 minute, then turn on the ignition lock key and try to start again.

Operation guide

Driving operation



1. After starting preheating, retract the side support, hold the clutch handle and disengage the clutch. Press the shift arm with the left toe (Note: the brake is in braking state before starting and engaging gear), and shift the gear to the first gear.
2. Release the front brake handle, slowly rotate the accelerator handle to accelerate, so as to start the motorcycle. After the driving is smooth, then gradually shift from low gear to high gear.



Danger

1. Please wear protective equipment (e.g. helmet, protective gloves, protective glasses, protective clothing, etc.) before driving.
2. It is forbidden to drive a motorcycle when the clutch is not completely disengaged or skids.
3. It is forbidden to increase the accelerator when the motorcycle starts, and it is forbidden to turn the accelerator handle suddenly and quickly.

Operation of new motorcycle

After buying a new motorcycle, users shall pay attention to the running-in of the new motorcycle (the running-in period is the first 500 miles, and the odometer reading shall prevail). The running-in quality of the new motorcycle directly affects the service life of the motorcycle, so the user should control the rotation speed to about 6,500 RPM (the speed is not more than 32 mph, depending on the speedometer) within the first 500 miles. After the running-in period is completed, an initial maintenance should be carried out to compensate for the initial slight wear, prolong the service life of the engine and ensure the best performance of motorcycle. Change the company's special oil every 200 miles. In case of any engine failure during the running-in period and trial operation, please contact CSC Motorcycles special maintenance service center.

1. 0 miles~100 miles : During driving, the speed shall be controlled at about 4,000 RPM, and the refueling hand shall control the stroke at about 1/4. After driving for 1 hour, the engine shall be cooled for (5 ~ 10) minutes.
2. 100 miles~300 miles : During driving, the speed shall be controlled at about 5,000 RPM, and the refueling hand shall control the stroke at about 1/2. After driving for 1 hour, the engine shall be cooled for (5 ~ 10) minutes.
3. 300 miles ~ 500 miles: When driving, the speed should be controlled at about 6,000 RPM, and the stroke of the refueling hand should be controlled at about 3/4.
4. Over 500 miles : During driving, when the speed is above 6,500 RPM, the free stroke of the refueling handle is 1 and can be fully opened.

Safe driving guidance

1. Precautions for driving up and down ramps

When driving on mountain roads with twists and turns and undulating slopes, the driving speed shall be adjusted according to the actual situation to avoid overloading the engine.

- ① When going up a steep slope, increase the throttle in advance to increase the output power of the engine. In case the motorcycle stalls.
- ② When going down a steep slope, drive at a low speed to ensure reliable adhesion between the motorcycle and the road and avoid slipping.

2. Precautions for driving on wet and slippery road (or in rain and fog)

When driving on rainy days or on wet roads, the adhesion coefficient between the tire and the ground is poor, which is easy to cause floating phenomenon. Therefore, it is not suitable to drive at high speed, easily causing a very dangerous fall. In this case, please note the following points to ensure driving safety:

- ① Maintain a reasonable speed and avoid sudden acceleration or braking. Do not use severely worn tires. If the tire wear exceeds the maintenance limit by 2mm, reduce the vehicle speed and do not use the brake urgently.
- ② When driving on muddy roads, try to keep driving at a low speed to avoid sudden start, acceleration, steering and braking.

3. Precautions for driving on ice and snow ground

When driving on ice and snow roads, install tire anti-skid chains on tires or use anti-skid tires.

- ① Drive at a low speed as far as possible to avoid falling; Sudden acceleration, sudden braking or sharp turning are prohibited. When decelerating, return the speed regulating handle to decelerate the vehicle, which is conducive to improving the braking efficiency. Do not hold the brake pedal to the bottom at one time, but brake from light to heavy.
- ② When turning, reduce the speed and turn the steering handle slowly. Avoid driving the motorcycle at high speed so that the wheels do not slip and idle.

Safe driving guidance

4. Precautions for driving braking

The higher the speed of the motorcycle, the longer the braking distance. Therefore, during braking, the brake shall be controlled according to the vehicle speed and the required braking distance.

① In rainy and foggy days, the visibility is low, and the adhesion between the tire and the ground is poor, which is easy to produce "floating", resulting in difficulty in controlling the steering mechanism and braking system. So the drivers shall reduce the speed when driving on rainy days, foggy days and wet roads. When driving at high speed through the mountain passes, overtaking or passing through the tunnel entrances, it will be affected by the lateral wind. At this moment, the vehicle speed shall be properly controlled to avoid accidental shaking. When using the motorcycle brake, the user shall first use the rear brake, and then use the front brake to control the running speed of the motorcycle.

② During driving, fingers and toes should be placed on the brake handle and rear brake pedal to prevent emergencies. When driving after wading or washing, use a low speed, intermittently hold the front brake handle and press the brake pedal lightly to dry the front and rear brakes. After driving on muddy land, sand dune land and roads with poor road conditions, the brake drum, brake shoe and brake disc shall be cleaned in time to avoid excessive wear which can affect the braking effect.

③ When driving down steep or long slopes, please do not step on the brake pedal for a long time or brake too frequently, otherwise the brake will overheat and affect the braking performance, and braking shall be carried out according to the actual situation. Driving at high speed is prohibited when driving on rainy, wet or slippery roads.

5. Precautions for exhaust emission pollution

Please try not to breathe the exhaust gas discharged by the motorcycle, because the exhaust gas contains carbon monoxide (CO), which is harmful to human body. It is strictly prohibited to start and operate the motorcycle in the garage or other closed areas. Make sure that the exhaust air is clear and free from blockage to facilitate the diffusion of exhaust gases. Check the exhaust muffler for air leakage and ensure that the exhaust gas diffuses from the tail of the exhaust silencer.

Maintenance

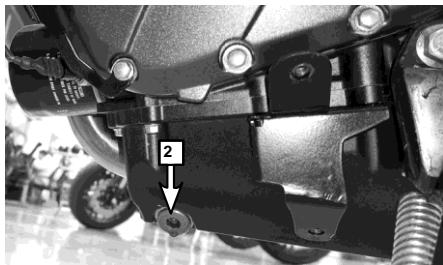
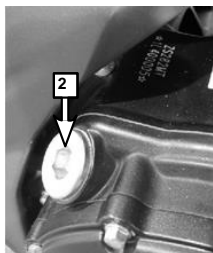
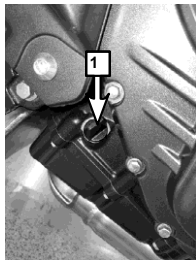
Periodic maintenance schedule

Maintenance times Maintenance items	Odometer km			Remark
	Running-in period 500 miles or 1 month	Initial stage 1,500 miles or 3 months	Every 3,000 Miles	
Valve clearance ※			No inspection without fault	1. ※※ : This item refers to medium weight wheel lubricating oil. 2. ※ : It is recommended to visit the company's special maintenance service center for maintenance on a regular basis. 3. Periodic maintenance schedule should be appropriately shortened when driving in abnormally wet or dusty areas.
Spark plug ※			No inspection without fault	
Air filter ※			Cleaning / inspection	
Fuel filter ※	Replace every 8,000Km~1,000Km			
Engine oil ※	Replace every 300km	Check / replace once	Check / replace once	
Oil filter screen ※	Cleaning / replacement	Cleaning / replacement	Cleaning / replacement	
Brake ※	Inspection / adjustment	Inspection / adjustment	Inspection / adjustment / replacement	
Clutch ※		Inspection / adjustment	Inspection / adjustment / replacement	
Aluminum wheel / spoke wheel ※		Inspection / adjustment	Inspection / adjustment	
Wheel bearing ※※		Cleaning / replacement / lubrication	Cleaning / replacement / lubrication	
Steering bearing ※※			Cleaning / lubrication	
Shock absorber ※	Check	Inspection / adjustment	Inspection / adjustment	
Drive chain sprocket ※※	Inspection / adjustment	Cleaning / adjustment / lubrication	Cleaning / adjustment / lubrication	
Battery ※	Check	Charging / checking	Charging / checking	
Fastener	Inspection / tightening / replacement	Inspection / tightening / replacement	Inspection / tightening / replacement	

Maintenance

Inspection and replacement of engine oil

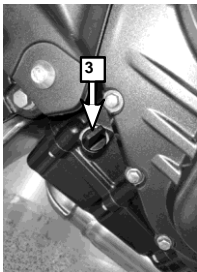
Change the oil regularly; please do so after a few minutes of preheating and change the oil strictly according to the standards specified by the company.



1. Place the engine horizontally, idle for 60 seconds and then stop for 3 minutes to check the oil level. If the oil level is below the lowest line of the dipstick, supplement the lubricating oil to the middle of the scale line of the oil dipstick. At the same time, check the engine oil for blackening and deterioration. If there is blackening and deterioration, replace the engine oil.
2. Before draining the oil, place an oil pan under the engine, remove the oil drain bolt, and use the Allen tool with the opposite edge of 8mm to drain the oil; When the oil is basically drained, turn the engine several times to let the residual oil flow out completely. Then install the oil drain bolt and add special oil. The oil filler bolt is removed and fastened with an opposite 12mm inner hexagon tool.

Caution

1. Replace the lubricating oil when the engine is hot.
2. It is forbidden to remove the oil drain bolt when the engine is at high temperature, so as to avoid screw slippage.
3. When replacing with new lubricating oil, it must be filtered.
4. Observe whether the filter screen, sealing gasket, spring, O-shaped sealing ring and oil drain bolt are in good condition. If they are damaged, replace them.

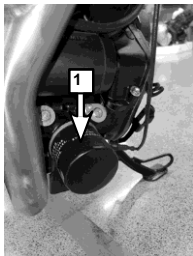


3. Remove the oil plug on the right cover, add lubricating oil of corresponding brand from the oil plug of the right cover, pay attention to the height of the oil scale while adding oil, and stop refueling until the oil level reaches the upper line of the oil scale. Finally, install the oil plug on the right cover and tighten it.

4. Start the engine and let it run for several minutes, and check whether there is oil leakage at the disassembled parts of the engine.

5. Turn off the engine and wait a few minutes before checking the oil level. The oil level should be between the upper and lower limits of the oil dipstick.

Oil filter



Instructions for oil filter:

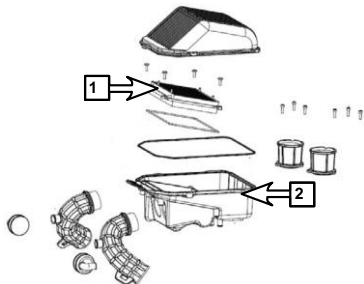
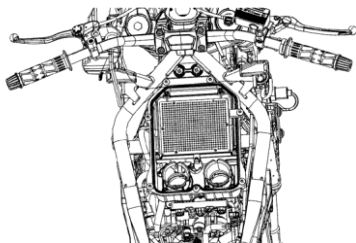
1. Replace it every 6,500 miles or 250h.

2. Apply a little oil on the sealing ring, and then install and tighten it.

3. Start the engine and check whether there are any oil leaks and oil levels.

Maintenance

Cleaning of air filter



After the filter element of the air filter is blocked by dust, the resistance of the intake system will increase, the mixture is too rich, the power will decrease and the fuel consumption will increase. Therefore, the filter element should be checked, cleaned and replaced regularly.

1. Remove the air filter element.
 2. Wipe the inner cavity of the air filter with clean dry cloth.
- When there is too much dust in the foam filter element, remove the foam filter element for cleaning.

Danger

1. When installing the filter element, it should be correctly installed in a fixed position. When driving in areas with heavy dust, the maintenance period of the filter element should be shortened.
2. It is forbidden to use the following cleaning agents to clean the filter screen, such as gasoline, low ignition point solvent, acidic, alkaline and organic volatile oil.
3. When the filter element is not installed, the motorcycle cannot be started, otherwise the piston, piston ring and cylinder block will be excessively worn.
4. The cleaning of air filters should be carried out regularly at our special service center for the maintenance and replacement of filter element.

Maintenance

Inspection and adjustment of spark plug



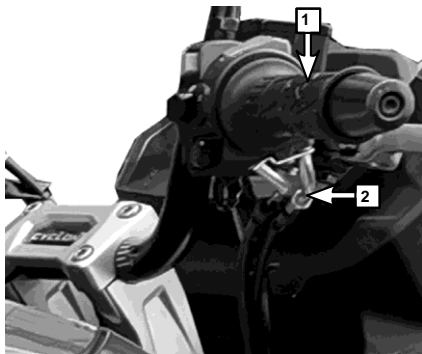
0.7mm-0.9mm

Remove the spark plug. When the skirt of the spark plug insulator is gray white, it indicates that the engine is overheated. It is because the calorific value of the spark plug is small or the spark plug is screwed in too long. Replace the spark plug with the same type. When the spark plug insulator is dark black or the surface is heavily oiled and dark black carbon is accumulated, it means that the combustible mixture is too rich and the air filter should be cleaned. When the skirt of spark plug insulator is brown, it indicates that the engine combustion works normally.

Spark plug model: LMAR9D-J
Spark plug gap: 0.7mm-0.9mm; Spark plug torque: 17.5Nm(1.75m.kg)

When cleaning the spark plug, soak it in detergent or gasoline for half an hour, and then use a non-metallic scraper to clean the carbon deposits around the spark plug. Before installing the spark plug, measure the electrode gap of the spark plug with a thickness gauge and adjust the electrode gap to the specified value. Clean the gasket and tighten the spark plug to the correct torque.

Adjustment of accelerator cable



Adjust the throttle wire pull rope by turning the adjusting nut to achieve the correct free stroke of the throttle handle.

1. When the free stroke of the throttle handle is greater than or less than the standard value, it needs to be readjusted.
2. Adjustment method for free stroke of throttle wire cable: loosen the locking nut, turn in or out the adjusting nut until the specified free stroke is reached, and tighten the locking nut.

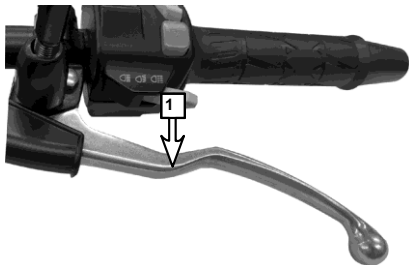
Standard value of throttle handle: 2mm ~ 6mm

Warning

1. The idle speed must be adjusted before adjusting the free stroke of throttle wire cable.
2. In case of interference and wear of throttle steel wire cable, the acceleration handle and steel wire cable must be removed for cleaning or replacement, and lubricating grease shall be added.

Maintenance

Inspection and adjustment of front brakes



The front brakes of this model are equipped with disc configuration, which has the advantages of stable braking performance, safety, reliability, labor saving, good heat dissipation, etc.

1. When the free travel of the current brake handle is greater than or less than the standard value, it needs to be adjusted again.
2. Check the oil level of the oil storage cylinder from the observation hole. When the oil level of the oil storage cylinder is lower than the lower limit position, the brake oil shall be replenished to the upper limit position.

Standard value of stroke of brake handle: 10 mm ~ 20 mm

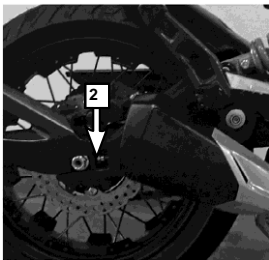
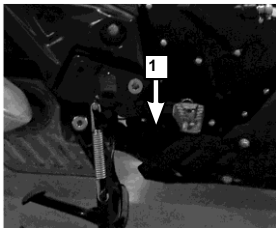
Recommended brake oil: DOT4

Danger

1. If DOT4 oil is not available, DOT3 oil can be used instead.
2. If the front brake handle is soft and loose, there is air in the hydraulic brake, which must be checked and adjusted by our company's special maintenance service center.
3. Brake oil cannot be mixed with other lubricating oils. The replaced brake oil cannot be used again, and different brands of brake oil cannot be mixed, otherwise, the service performance of hydraulic brakes will be seriously damaged.

Maintenance


Inspection and adjustment of rear brakes



1. The free stroke of the rear brake pedal can be adjusted through the limit screw of the brake arm so that the free travel of the rear brake pedal is a standard value. Pedal the rear brake pedal several times, then release and rotate the rear wheel assembly to check whether the rear wheel can rotate freely.

2. Remove the brake friction piece and the wear of the friction piece. If the thickness is less than the maintenance limit of 2.0mm, it should be replaced.

Standard value of travel of rear brake pedal: 20 mm ~ 30 mm

 Danger

1. When adjusting the rear brake and replacing the brake friction plate, please be sure to visit our special maintenance service center to replace the original genuine parts.
2. Regularly check and adjust the special maintenance service of our company.

Maintenance

Inspection of wheels



Tyre specification and air pressure

Tire size	Front wheel	120/70-17M/C
	Rear wheel	160/60-17M/C
Tire pressure	Front wheel	36 psi
	Rear wheel	36 psi

Outer tire wear limit value

Outer tire wear limit value	Front wheel	2.0mm
	Rear wheel	3.0mm

Wheel deflection limit value

Wheel deflection limit value	Axial direction	2.0mm
	Radial direction	2.0mm

Danger

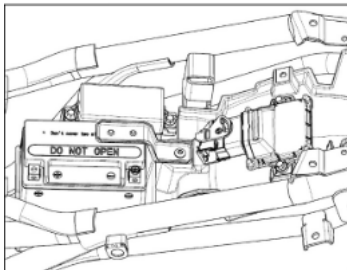
1. If the tire pressure is too high, the riding comfort will be reduced and the wear of various parts will be accelerated. If the tire pressure is too low, the rolling resistance of the tire will get increased and the fuel consumption will be increased. In serious cases, part delamination of the tire will result in tire burst.
2. If the inner tube valve core leaks, repair or replace the valve core. Repair or replace the tube when it leaks.
3. For spoke wheel, the spokes must be checked and adjusted every 500 miles. If they are loose, they shall be adjusted immediately according to the standard torque value, and check whether the axial movement of the rim exceeds the standard value.
4. Regularly check and adjust the wheels at our special service center.

Battery

This motorcycle adopts wet charged colloidal battery with DC power supply, and its ready-to-use specification is YTZ12S-BS (12V11Ah).

Battery (wet charge type) The valve controlled wet charge maintenance free lead-acid battery does not need to inject liquid into the battery.

Please check the initial voltage of the battery. If the terminal voltage of the battery is below 12.5V under sufficient voltage state, the battery must be charged and used after sufficient voltage.



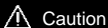
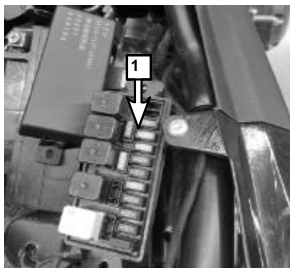
Danger

1. Regularly visit our company's special maintenance service for checking and charging.
2. Do not disassemble the battery, because it contains corrosive substances and should avoid contact or contamination of the environment.
3. When charging, keep good ventilation and avoid fire source near the battery.
4. Waste batteries will cause serious pollution to the environment. Please be sure to send the waste batteries to the designated recycling station nearby and properly dispose of the waste batteries according to relevant regulations.

Maintenance

Replacement of fuse tube

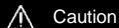
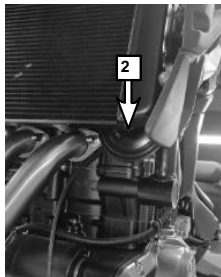
The battery is charged and discharged with a fuse in series. When the current exceeds the specified value, the fuse will automatically break to protect the battery and electrical components. The car performance fuse current are: main power 30A, main motor 25A, ECU 15A of ABS , spotlight (reserved for modification) 25A, EFI 15A, OBD terminal 5A.



When the fuse tube of the motorcycle often breaks, please go to the special maintenance service center of the company to find out the cause, eliminate the fault, and then replace the fuse tube of the same model and specification.

Adjustment of electric horn

After the motorcycle has been running for a period of time, the fixing nut and adjusting screw of the electric horn may become loose, resulting in hoarseness or silence of the electric horn. The adjustment of the electric horn must be carried out at the special maintenance service center of the company.



Users are not allowed to adjust the fixing nut and adjusting screw of the electric horn at will, otherwise, the company will not guarantee "three guarantees" (for repair, replacement or compensation of faulty products).

Maintenance

Common faults of EFI system

No.	Failure phenomenon	Cause of failure
1	The whole vehicle without electricity or the EFI system without electricity.	1. The fuse is broken or loose; 2. Loose connection of positive and negative electrodes of battery; 3. The key lock and flame-out switch loose; 4. The ground wire is loose; 5. The main relay is damaged.
2	Difficult to start	1. The oxygen sensor is damaged. Oxygen sensor voltage does not jump (diagnostic tester-read data stream-oxygen sensor voltage value 100~800mv); 2. Crankshaft position sensor failure. No trigger signal (oscilloscope); 3. Nozzle and ignition coil failure. No fuel injection ignition pulse (diagnostic tester-read data stream- fuel injection pulse width); 4. Oil pipe extrusion; 5. Battery power loss; 6. Line breakage, open circuit or virtual connection; 7. Engine failure.
3	No idle speed or high idle speed	1. The oxygen sensor is damaged; 2. Step motor loses step; 3. Throttle position sensor failure.(diagnostic tester - read data flow - throttle position 0~100 normal); 4. The oil volume of the oil tank is too small and the oil pump is not flooded; 5. Air leakage of air intake system; 6. Insufficient voltage.
4	Oil addition and reduction failure	1. Oxygen sensor failure; 2. Throttle position sensor failure; 3. Step motor loses step; 4. Abnormal oil pump pressure; 5. Intake air pressure temperature sensor failure. 6. Ignition coil failure.
5	High fuel consumption	1. Oxygen sensor failure; 2. Intake air pressure temperature sensor failure.

1. When abnormal conditions occur in the daily use of the vehicle, a recovery initialization operation shall be performed for the electronic injection system to clear the error information stored in the ECU.

The specific methods are as follows: First, press the "one key start button" once to power down, and then press the "one key start button" 10 times continuously, that is, power up and power down for 5 consecutive times, with an interval of 0.5 seconds. In the process of power on and power off by pressing the "one button start button", the oil pump will be started once every time it is powered on, otherwise the initialization operation needs to be repeated. After 5 times of power on and power off, keep the power off state for 15 seconds - the initialization of EFI system is completed.

2. When the vehicle fails to start for many times, the engine will be flooded. A cylinder cleaning operation is required to remove unburnt combustion inside the engine.

The details are as follows:

First, keep the key and flameout switch open-the throttle is fully open for 5 seconds (the nozzle will not inject oil in this state)-then press the start button and hold for 3-5 seconds-the cylinder cleaning operation is completed.

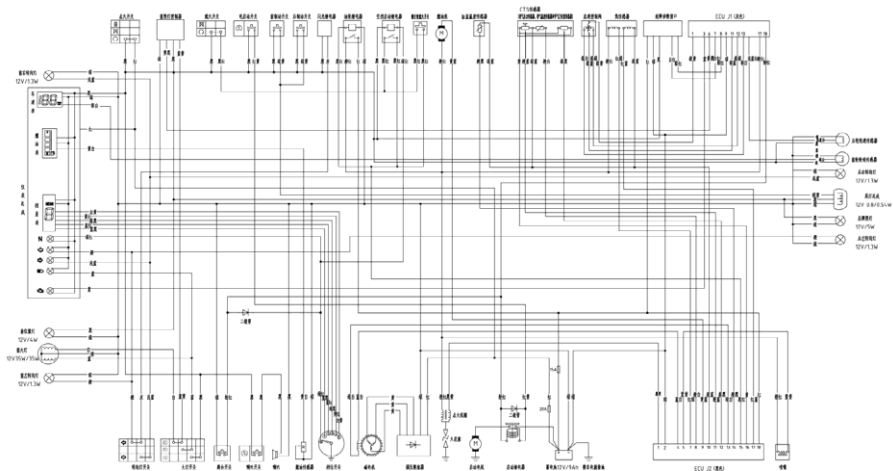
Maintenance

Cleaning and storage

1. Cleaning of the motorcycle (1). Before cleaning the vehicle, block the tail of the exhaust pipe, and then clean the dust and dirt with a high-pressure water gun. Note that the pressure of the high-pressure water gun cannot be too high, otherwise the lubricating grease will be washed clean (such as wheel bearing, steering column bearing, oil seal, etc.). When washing the car, try to avoid direct flushing of high-pressure water to the surface of EFI parts. (2). After cleaning, wipe the surface of the motorcycle with a clean cotton cloth or clean towel. (3). Apply wax on the surface of paint baking parts and antirust oil on the chrome plated surface. After treatment, start the engine and run at idle speed for several minutes.

2. Storage of motorcycle (1). For long-term parking (more than 60 days), it should be cleaned completely and then stored. Drain the fuel from the fuel tank and oil pipe, spray the inside of the fuel tank once with spray antirust oil, and then install the fuel tank cap. Motorcycle that have not been used for a long time should be started at least once a month to avoid blockage of oil passages. (2). Remove the spark plug, pour 5ml of new lubricating oil into the spark plug hole, inject it into the cylinder, and install the spark plug. And rotate the engine crankshaft for several turns, so that the injected lubricating oil can be evenly distributed in the combustion chamber to lubricate the cylinder wall. (3). Remove the battery and charge it slowly for one time. Store the battery in a dry, dark and indoor environment. Do not store the battery in an overheated or humid environment: below 0°C or above 30°C. (4). Remove the control cable for cleaning and lubrication. After filling the tire pressure to the specified value, use wood blocks to raise the tire so that the tire does not contact the ground. (5). After storage, it should be stored in a ventilated, dry, clean, rain-proof and sun-proof environment, away from flammable, chemical corrosive and other harmful substances. (6). When in use after storage, it should be thoroughly cleaned and checked. After the antirust oil in the oil tank is cleaned, fuel should be added and the battery should be slowly charged. If it is stored for more than 4 months, the engine lubricating oil shall be replaced.

Electrical schematic diagram



Technical specifications and performance parameters

Items	Specifications/parameters
Outer contour dimension (length × width × height)	7.2 ft × 2.7 ft × 4.6 ft
Wheelbase	4.75 ft
Minimum ground clearance	0.55 ft
Minimum turning circle diameter	17 ft
Complete vehicle curb mass	540 lbs
Maximum capacity	330 lbs
Engine model	ZS282MT
Engine type	Double cylinder, four stroke, water cooled
Cylinder diameter × stroke	82mm × 61.5mm
Volume	650ml
Compression ratio	11.5:1
Electronic control unit	MSE6. 0
Lubricating system	Splash lubrication plus pressure lubrication
Starting mode	Electric starting
Maximum net power/corresponding rotation speed	52.0KW/8500rpm
Maximum torque/corresponding speed	62N.m/7000rpm
Minimum no-load stable speed	1500±150 (r/min)
Fuel consumption	44 mpg
Maximum speed	112 mph
Fuel tank capacity and fuel model	5.5 Gallons
Type and capacity of lubricating oil	SN5W/40,3.0L
Shock absorber type	Hydraulic spring compound type (rebound damping adjustable)
Tyre size/air pressure	Front tire 120/70-17M/C/36 psi, rear tire 160/60-17M/C/36 psi

Memorandum

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