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## PREFACE

The manual introduces to you basic operation and method of maintenance of this motorcycle. Please read the manual carefully before driving the motorcycle. Proper operation and maintenance of the motorcycle will ensure less trouble and optimum performance and service life. The authorized service dealers at various areas will take their pleasure in providing you with more technical consultations and after-sales services.

The data, instructions, specifications, and pictures demonstrated in the manual are based on the latest design information available at the time of approval for printing. Our company reserves the right to make changes at any time without notice of changed parameters and other information.

Thank you for purchasing motorcycle. Wish you a comfortable and pleasant long trip in the future.

The product is in accordance with QC/T29116-93 standard.

## IMPORTANT NOTICE

The engine of this motorcycle rotates at high speed. In order to make sure that the engine can run normally, prolong its service life and safeguard your interests, please operate the motorcycle according to the following regulations:

1. During the first 1,000 km, avoid full throttle and never labour the engine. The rotating speed of the engine should be strictly restricted to less than 6000rpm.
2. After the first 500km, and every 3000km in the future, please clean the engine and change engine oil in accordance with the requirements of Operation and Maintenance Manual.

## Special Attention

If you operate the motorcycle without following traffic regulations and instructions in the manual, or under abnormal conditions such as driving on terrible bumps or overloaded, safety accidents or equipment damage may occur.

This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when resold.

The company reserves all rights of the manual. No part of this publication may be reproduced without written permission of the company, and any violation will be brought to justice.

# MOTORCYCLE SAFETY

## WARNING

When riding your motorcycle, you must pay attention to traffic safety. Only after you have checked your motorcycle can you drive it.

## SAFE RIDING RULES

Before you start your engine, you must check the motorcycle to prevent accidents or equipment damage. Any motorcycle driver must pass the test and get the license

Before the traffic administration validates one's permit for driving. NEVER lend your motorcycle to any rider without drive license.

Make yourself conspicuous to help avoid the accident that wasn't your fault:

Wear bright-colored clothing. Don't keep extremely close to other motorcycles. Properly use signal devices such as turn signal lights and horn. Lane sharing is prohibited. Strictly obey all local traffic regulations.

Excessive speed is a factor in many accidents. Obey the speed limits, and NEVER travel faster than conditions warrant.

Keep both hands on the handlebars and both feet on the footpegs while riding. A passenger should hold on firmly to the driver's waist with both hands and keep both feet on the passenger footpegs.

## PROTECTIVE APPAREL

A motorcycle rider usually has his/her head injured in an accident. In order to ensure personal safety, the rider should wear a helmet, goggles, boots, gloves etc. The passenger should wear the same right gear.

The temperature of the muffler is very high when the motorcycle is ridden. The passenger should wear boots or shoes high enough to cover his/her ankles to prevent his/her feet from being scalded. The rider should wear close-fitting clothes to prevent loose clothing catching the handlebars, kick starter, footpegs and tyres.

## MODIFICATIONS

### WARNING

Modification of the motorcycle or change of original equipment may render the motorcycle unsafe or illegal. Obey all traffic regulations stipulated by the local traffic Administration.

If you have any better suggestions, you can inform us through correspondence. It is advisable to modify your motorcycle only after being agreed by us. Otherwise, you will be responsible for all consequences.

## LOADING

### WARNING

The motorcycle is sensitive to changes in weight distribution. Improper loading of cargo can impair the motorcycle's performance and stability.

Keep cargo weight low and close to the center of the motorcycle. Load weight equally on both sides of the motorcycle to minimize imbalance. As weight is located further from the center of gravity, handling is proportionally affected.

Properly adjust the tire pressure and the spring of the rear shock absorber according to the load weight and road conditions.

Firmly Mount loads on the motorcycle in order to ensure stable handling.

Avoid fastening large or heavy loads to handlebars, front fork or dashboard. Otherwise it can adversely affect stability and handling. NEVER exceed the maximum weight limit of 171kg.

## ACCESSORIES

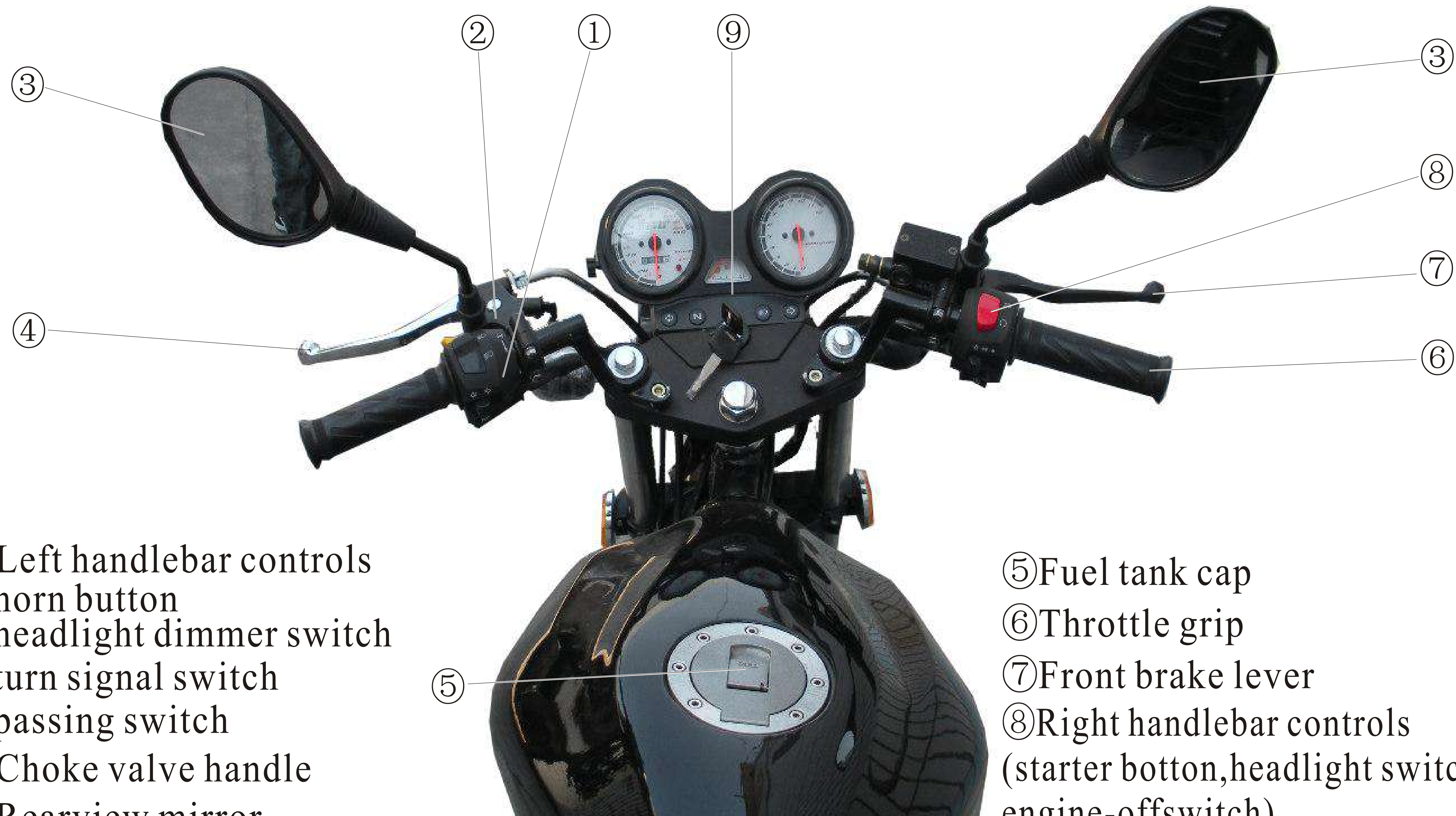
Accessories produced by our company have undergone special design and test, and can render the motorcycle safe. They are optional for users. Users will take responsibility for their selection, installation and use of accessories not produced by our company. Please obey safe riding rules and follow the next points:

Carefully check your accessories, make them out of sight line, reduce distance between them and the ground and side dip angle, and keep suspension or steering device from moving or affect handling.

Avoid attaching any electrical equipment. Otherwise it can bring trouble to the electrical system.

# INSTRUCTIONS

## PARTS LOCATION



- ① Left handlebar controls  
horn button  
headlight dimmer switch  
turn signal switch  
passing switch
- ② Choke valve handle
- ③ Rearview mirror
- ④ Clutch lever

- ⑤ Fuel tank cap
- ⑥ Throttle grip
- ⑦ Front brake lever
- ⑧ Right handlebar controls  
(starter button, headlight switch,  
engine-off switch)
- ⑨ Instrument panel





- ①Headlight②Front left turn signal ③Electric horn ④Gearshift lever ⑤Main footrest  
⑥Kickstand⑦Engine number⑧Engine⑨Left exhaust muffler⑩Secondary footrest  
⑪Rear shock absorber⑫Rear left turn signal⑬License light⑭Taillight  
⑯Radiator cover



①Front right turn signal light ②Front Shock absorber ③Front wheel ④Front brake disc  
 ⑤Front brake pump ⑥Frame name plate ⑦Raditor ⑧Rear Brake padel ⑨Carburetor  
 ⑩Right muffler ⑪ Rear brake ⑫Rear right turn signal light ⑬Seat ⑭Fuel tank

## PARTS FUNCTION

### [INSTRUMENTS AND INDICATORS]

- ① left right turn signal indicator
- ② trip meter reset
- ③ tripmeter odometer
- ④ speedometer
- ⑤ odometer
- ⑥ right turn signal indicator
- ⑦ high beam indicator
- ⑧ neutral gear indicator
- ⑨ water temperature alarm indicator

### [Ignition Switch]

The ignition switch ① is on the front right side of the fuel tank

“ ⊗ ” The circuit is cut off. The engine can't be operated. Key can be removed.

“ ⊙ ” The circuit is closed. Engine can be operated. When in neutral position, the neutral gear indicator is on and the key can't be removed



① Ignition Switch

## STEERING LOCK

The lock ① is below the steering stem. To lock the steering, turn the handlebars all the way to the left, turn the ignition key clockwise to lock while pushing in, and then remove the key.

**Caution: Always lock the steering when the motorcycle is not run.**

## LEFT HANDLEBAR CONTROLS

1. horn button
2. turn signal switch
3. passing switch
4. headlight dimmer switch
5. choke valve handle

[Horn Button]

Press the horn button ① to sound the horn if necessary.

[Headlight Dimmer Switch] select “D” for low beam and “D” (blue) for high beam.



## [Turn Signal Switch]

The turn signal switch has three positions. Move to “ ← ” to signal a left turn with both front and rear left turn signal lights on, and “ → ” to signal a right turn with both front and rear right turn signal lights on. Press to turn signal off with both signal lights off. The switch will automatically return to mid. Position.

## [Passing Switch]

The passing switch is on the left handlebar.

Select for low beam and press the passing switch, and then both low beam and highbeam lights are on. Release the switch and only low beam light is on

When the motorcycle overtakes at night, use the passing switch instead of constantly turning on and off the headlight dimmer switch. Therefore, the operation becomes so simple to ensure safe riding.

## [Choke valve handle]

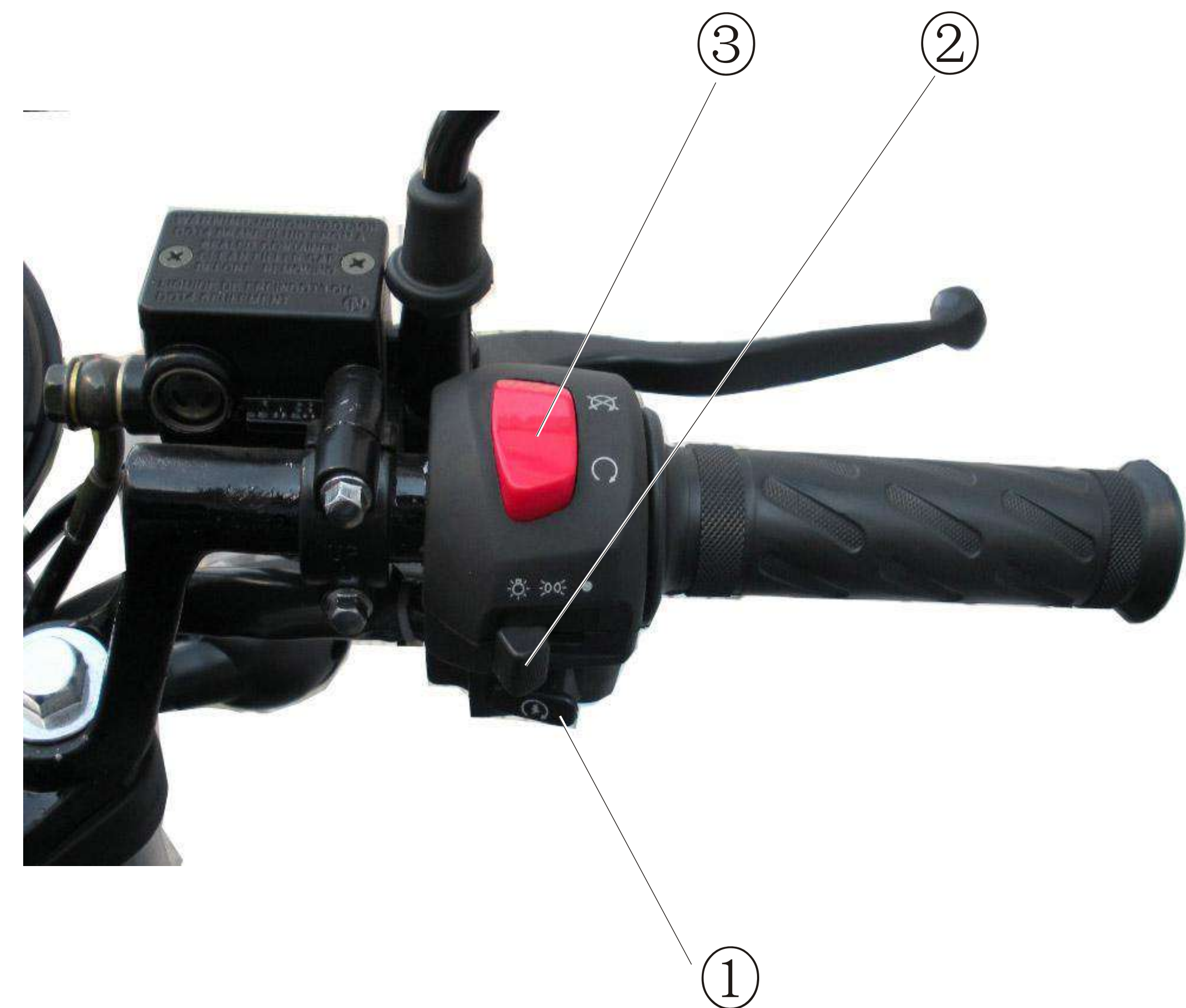
The choke valve handle is on the left handlebar.

To start a cold engine, turn the choke valve handle downwards to close the choke Valve.

To start a warm engine or ride normally after starting, turn the handle upwards to open the choke valve.


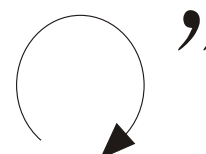
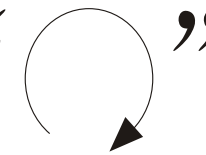
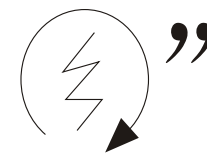
## RIGHT HANDLEBAR CONTROLS

- ① Electric starter button
- ② Headlight switch
- ③ Engine cut-off switch



## [Electric Starter Button]

The starter button is one of the right handlebar controls

1. Make sure that the gear is shifted to neutral and the fuel switch is in the position of “” or grasp the clutch lever to separate the clutch when the motorcycle remains in any other gear.
2. Push in the ignition key and turn it to “”
3. Turn the engine cut-off switch to “” and press the electric starter button “” At the same time, slightly opening the throttle can crank the engine.

## [Headlight Switch]

The headlight switch has three positions “” “P” “” and.

“” headlight, taillight, meter lights and license plate light on.

“P” front position light, taillight, meter lights and license plate light on.

“” headlight, taillight, front position light, meter lights and license plate light off.

**Note: Front position light is in the front turn signal light.**

## [Engine Cut-off Switch]

Engine Cut-off Switch is one of the right handlebar controls.

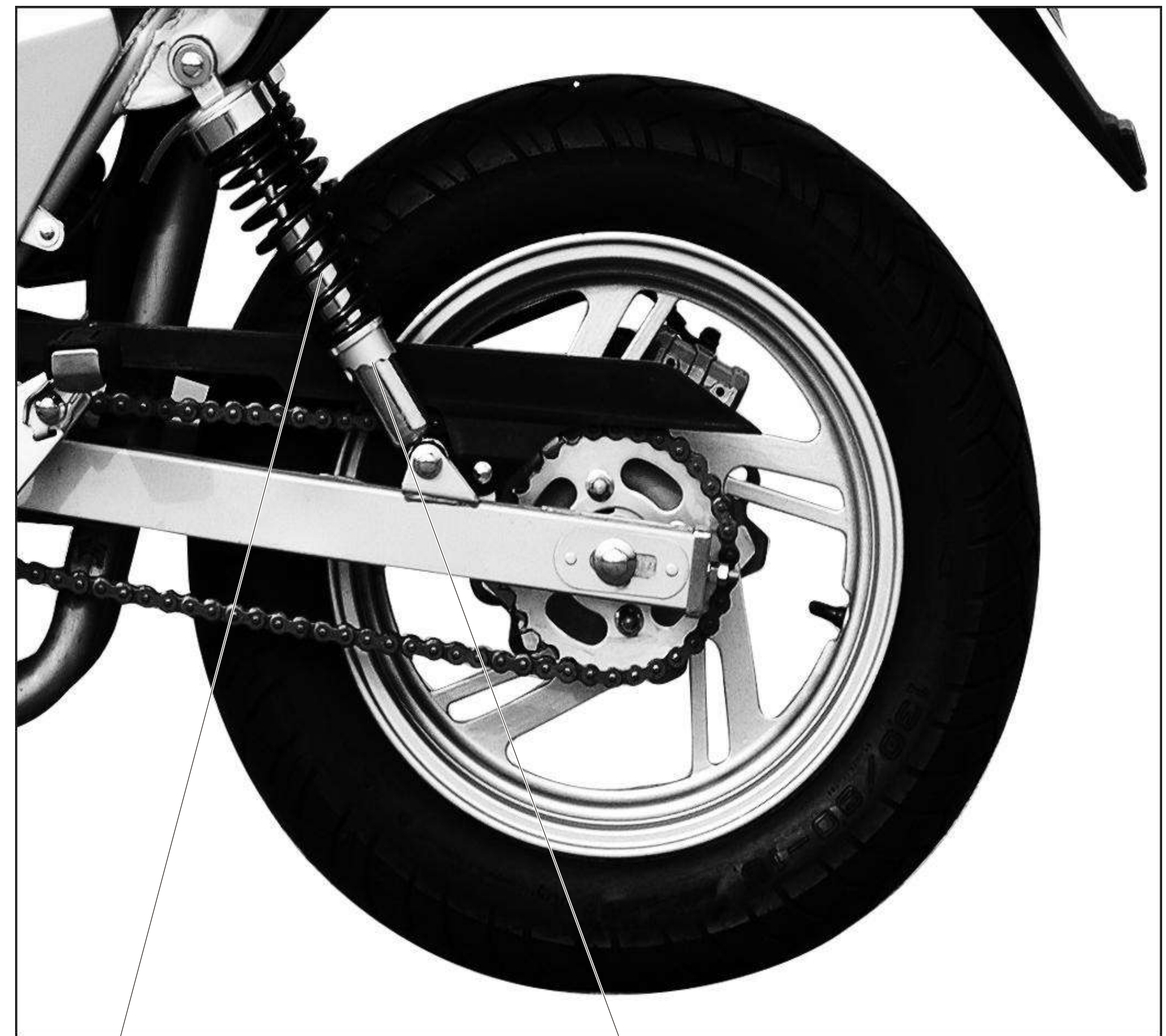
“” meaning that the whole circuit is cut off, the engine can't be cranked or to stop the running engine.

“” meaning that the whole circuit is switching-in, the engine can be cranked. To the engine cut-off switch must be turn to “” .

## [Rear Shock Absorber]

With different road and driving conditions, the rear shock absorber ① has five adjusting positions ②.

Position 1 is for light loads and even road surface. Positions 2-5 is for heavy loads and uneven road surface with the increase of spring force



① rear shock absorber ②1~5 adjusting position marks

## FUEL TANK AND CAP

Fuel tank capacity is 18.5L with 2.7L reserve fuel.

We recommend you use unleaded petrol RQ-93. If this kind of petrol is not available, use low-lead petrol with a research octane number higher than 90.

## CAUTION

Don't overfill the tank (there should be no fuel in the filler neck). After refueling, After refueling, make sure the fuel cap is closed securely. While refueling, fuel should be filtered through the filter at the mouth of the tank or specially filtered before.

### [How to Open the Fuel Cap]

Push in the ignition key, turn it to the right by turning 90 degrees and open the cap ①. To close the cap, push the cap down.

### [How to Open the Seat]

Push in the ignition key, turn it to the right by turning 90 degrees and open the seat key ②, pull out seat.



① fuel cap



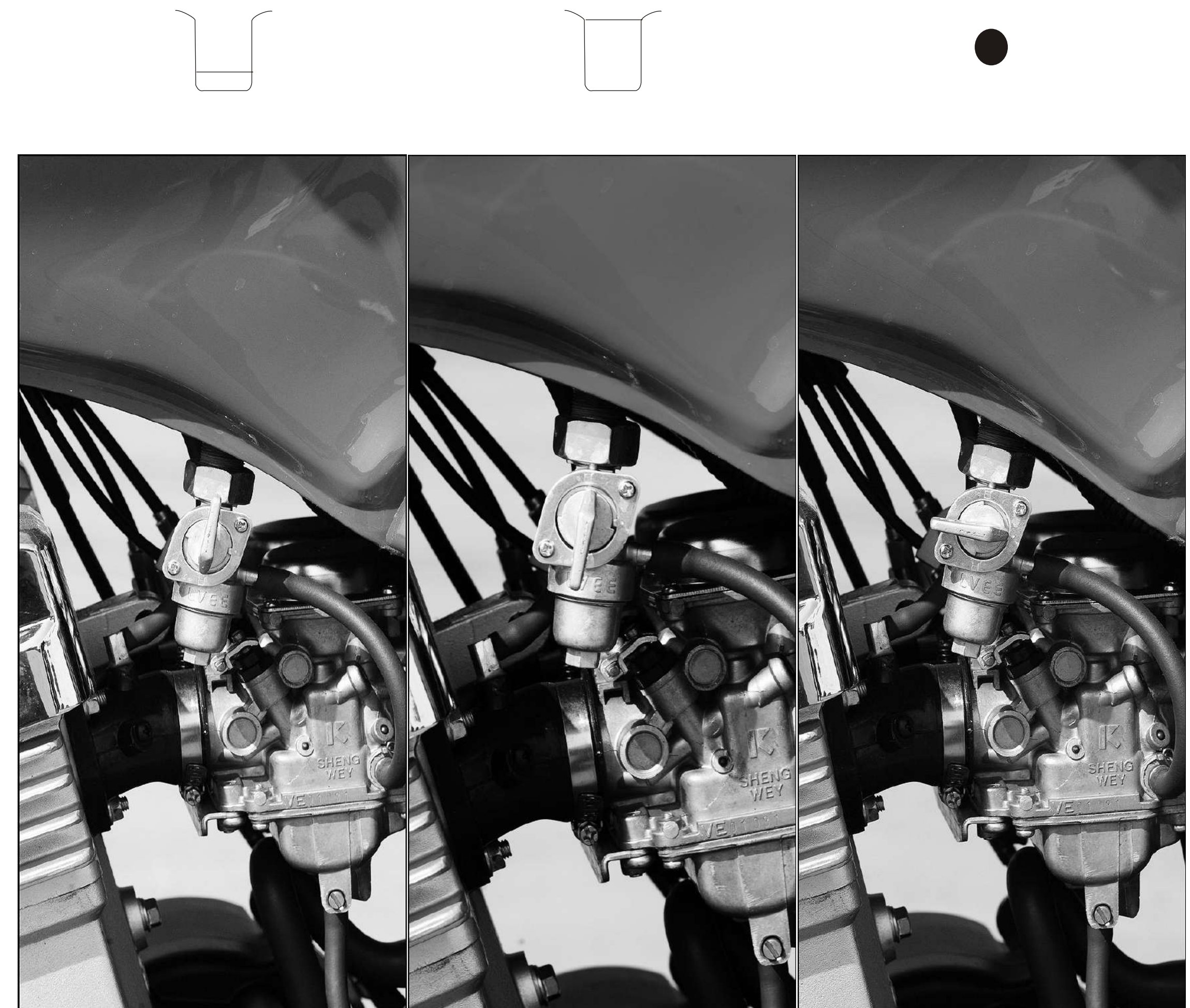
② seat key



## FUEL SWITCH

The fuel switch is below the left side of the fuel tank. Turn the fuel switch handle to “●” (off), fuel supply is stopped. The handle remains at the position when the motorcycle is not operated. When riding, you should turn the handle to “☐” (on), fuel is supplied normally (fuel flows into the Carburetor).

When the handle is turned to “☐” reserve fuel is supplied (only when normal fuel runs out). When the handle is turned to “☐”, please refuel the tank because only 2.7L reserve fuel is not enough



### CAUTION

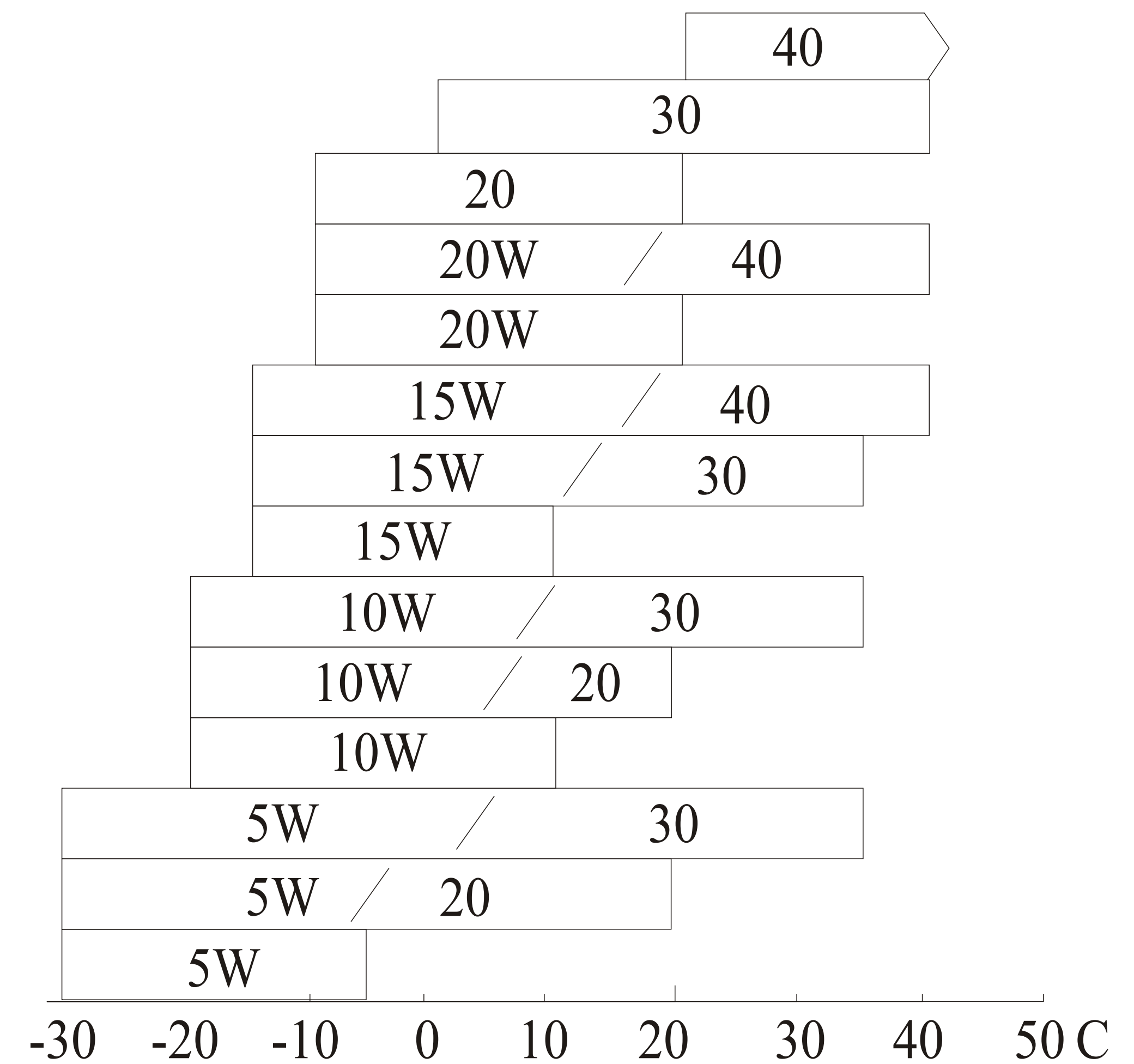
The fuel switch handle should not remain in the position of “☐” when refueling. Otherwise, there is no reserve supply when fuel runs out.

Proper use of the fuel switch can prevent the motorcycle from breaking down because of shortage of fuel.

## ENGINE OIL

Engine oil quality is the chief factor affecting engine performance and service life. So the engine oil should be selected according to requirements, not superseded by general engine oil, gear oil and vegetable oil.

The motorcycle uses engine oil SAE10W/40 API SG when being sold. If you want to change the oil for other engine oil, use only quality engine oil certified to meet or exceed requirements for service SG. The viscosity grade of engine oil should be based on the atmospheric temperature in your riding area as the picture attached shows. To change engine oil, you should drain existing oil out of crankcase, clean the case with detergent kerosene and then refuel new oil according to the provision.



The selection of viscosity of oil to be used at various atmospheric temperatures in different areas

## TUBELESS TYRES

Proper air pressure will provide maximum stability, riding comfort and tyre life

Load	Tyres pressure(kpa)	Tyres pressure(kpa)
Driver only	Front:225	Rear:225
Driver and one passenger	Front:250	Rear:250

## WARNING

Operation with excessively worn tyres is hazardous and will adversely affect traction, stability and handling. Improper tire inflation will cause abnormal tread wear and create a safety hazard. Underinflation may result in the tyre slipping on or coming off the rim and causing an accident.

### NOTE:

Tyre pressure should be checked before you ride while the tyres are cold. Check tyres for cuts, imbedded nails or other sharp objects. Check tyres for dents or deformation. If there is any damage, see your authorized service dealer for repair or replacement. Replace tyres before tread depth at the center of the tire reaches the following limit:

Minimum tread depth (mm)	
Front: 1.5	Rear: 2.0

# OPERATION

## PRE-RIDE INSPECTION

Inspect your motorcycle before you ride it. The items listed here will only take a few minutes to check and can save troubleshooting time while you are driving and ensure your safe riding

Oil level---check the level and if necessary,add oil. And check for oil leaks.

Front and rear brakes---check operation and if necessary,adjust free play.

Tyres---check condition and pressure of both front and rear tyres. If necessary,charge or repair.

Throttle---check for smooth opening and full closing in all steering positions, connection of steering line,and free play of handle. If necessary, adjust or change.

Lights and signals---check that the headlight, taillight. turn signals and horn function properly. If necessary, adjust or repair.

Chain---check that the chain functions and is lubricated properly. If it is severely worn or damaged, change it.

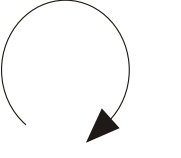
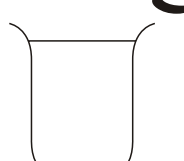
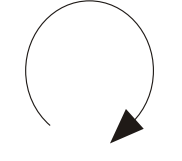
Steering---check the flexibility and stability of steering. If necessary, adjust.

## STARTING THE ENGINE

### WARNING

NEVER run the engine in a narrow area lest the exhaust should not easily diffuse. NEVER start the engine when the engine is in gear, otherwise it will cause equipment damage and an accident.

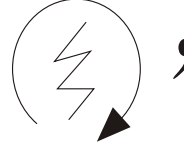
## [Preparing to ride]

Push in the ignition key and turn it to the position of “” turn the fuel switch handle to “” and engine cut-off switch to “” and pull up the choke valve handle to close the valve (not necessary if the engine is warmed up). Shift the gear to the neutral position with neutral gear indicator on (green), or shift to any gear, grasp the clutch lever and start the engine.

## (Electric Starting)

Press the electric starter button “” and open the throttle slightly to start the engine.

## NOTE:

1. Don't use the electric starter “” for more than 3-5 seconds at a time, otherwise the battery may be discharged quickly.
2. Release the starter button immediately after the engine is cranked
3. Don't press the starter button while the engine is running, otherwise it may adversely affect the engine.
4. Release the starter button for 2 minutes when the engine is not able to start for three consecutive times, otherwise the battery may be discharged quickly and used for a shorter period of time.

## RIDING

[Shifting Gears] Warm up the engine.

1. While the engine is idle, release the clutch, put your foot on the gearshift pedal to shift into a low gear (first gear);
2. Gradually accelerate the engine and slowly loose the clutch handle. Coordinate them to start riding steadily.
3. When the motorcycle rides steadily, feedback oil enables the engine to slow down, release the clutch again and pull the gearshift pedal up to shift into second gear. It is the same for changing to any other gear.

## RUNNING-IN

During initial running-in of 1000km, avoid full throttle use and never labor the engine by shifting gears. Strictly restrict the engine to less than 6000 rpm. During initial running-in of 500 km, the maximum speed should not be more than 55 km/h and during the first 500-1000 km, no more than 70 km/h.. Timely performance of the running-in maintenance will ensure optimum service life and performance form the engine. Running-in speed in every gear is shown in the right table.

Running-in speed table

Gear	Speed
First	0-15km/h
Second	10-30km/h
Third	20-45km/h
Fourth	30-55km/h
Fifth	50-70km/h

## **WARNING**

NEVER shift gears when the clutch is not released and the throttle is not decreased. Otherwise it will bring damage to the engine, the driving chain and other components.

### [Braking]

While slowing the motorcycle down, decrease the throttle first and then apply both front and rear brakes together to slow down or stop.

To apply an emergency brake, close the throttle first, release the clutch and promptly use both front and rear brakes at the same time.

Independent use of only the front or rear brake reduces braking performance. Rapidly applying brakes may cause the front or rear wheel to lock immediately, resulting in loss of control of the motorcycle and bringing about an accident.

When approaching a corner or turn, close the throttle fully, and slow the motorcycle down by applying both front and rear brakes at the same time. Otherwise it may cause loss of control and a skid or overturn.

When riding on wet or loose surfaces, maneuver steadily. Immediately speeding up, rapidly applying brakes and turning may result in a loss of motorcycle control.

### [Stopping]

Gradually close the throttle, decelerate the motorcycle, and then gently apply both front and rear brakes together to stop steadily, turn off the ignition switch and lock the head. In case of emergency, press the engine cut-off switch to cut off the engine. At last use the center stand to support the motorcycle and turn the fuel switch to “●”.

## CHECKING AND CHANGING OF ENGINE OIL, AND CLEANING OF FILTER

### [Engine Oil Level Check]

Check the engine oil level each day before riding the motorcycle. There is a dipstick ① behind the left crankcase cap for checking the oil level. The level must be maintained between the upper ② and lower ③ level marks on the dipstick.

Put the motorcycle on the center stand on level ground, remove the dipstick, wipe it clean, and reinsert the dipstick without screwing it in. Remove the dipstick to check the oil level.

If required, add the oil certified to meet requirements for service SAE10W/40 API SG. up to the upper level mark. Don't overfill. Reinstall the dipstick. Check for oil leaks.

### CAUTION:

Running the engine with insufficient oil can cause serious engine damage.

## MAINTENANCE



① Dipstick ② Upper level mark ③ Lower level mark



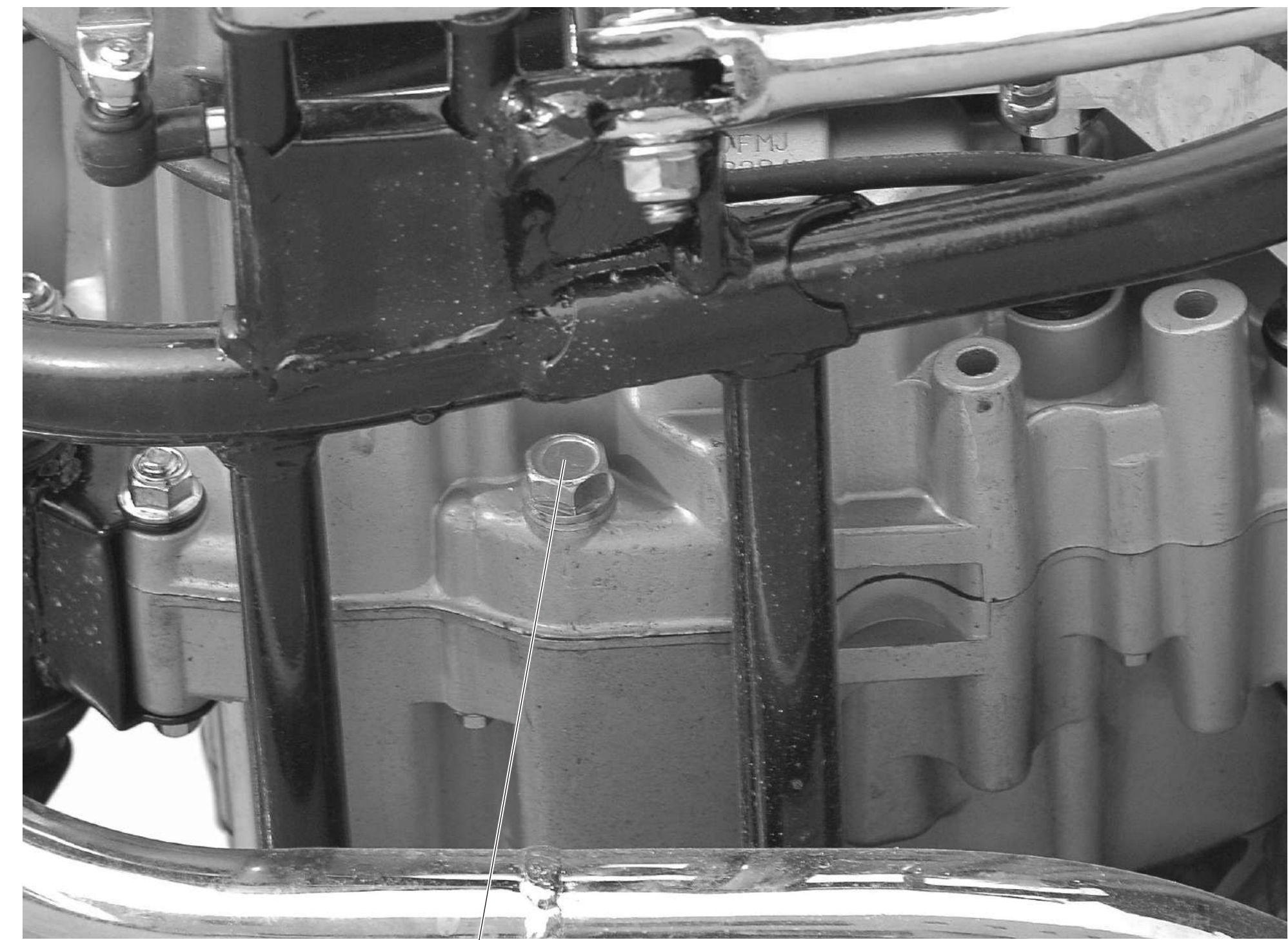
## [Engine oil change and oil filter clean]

Warm up the engine and drain the engine oil after cutting off the engine.

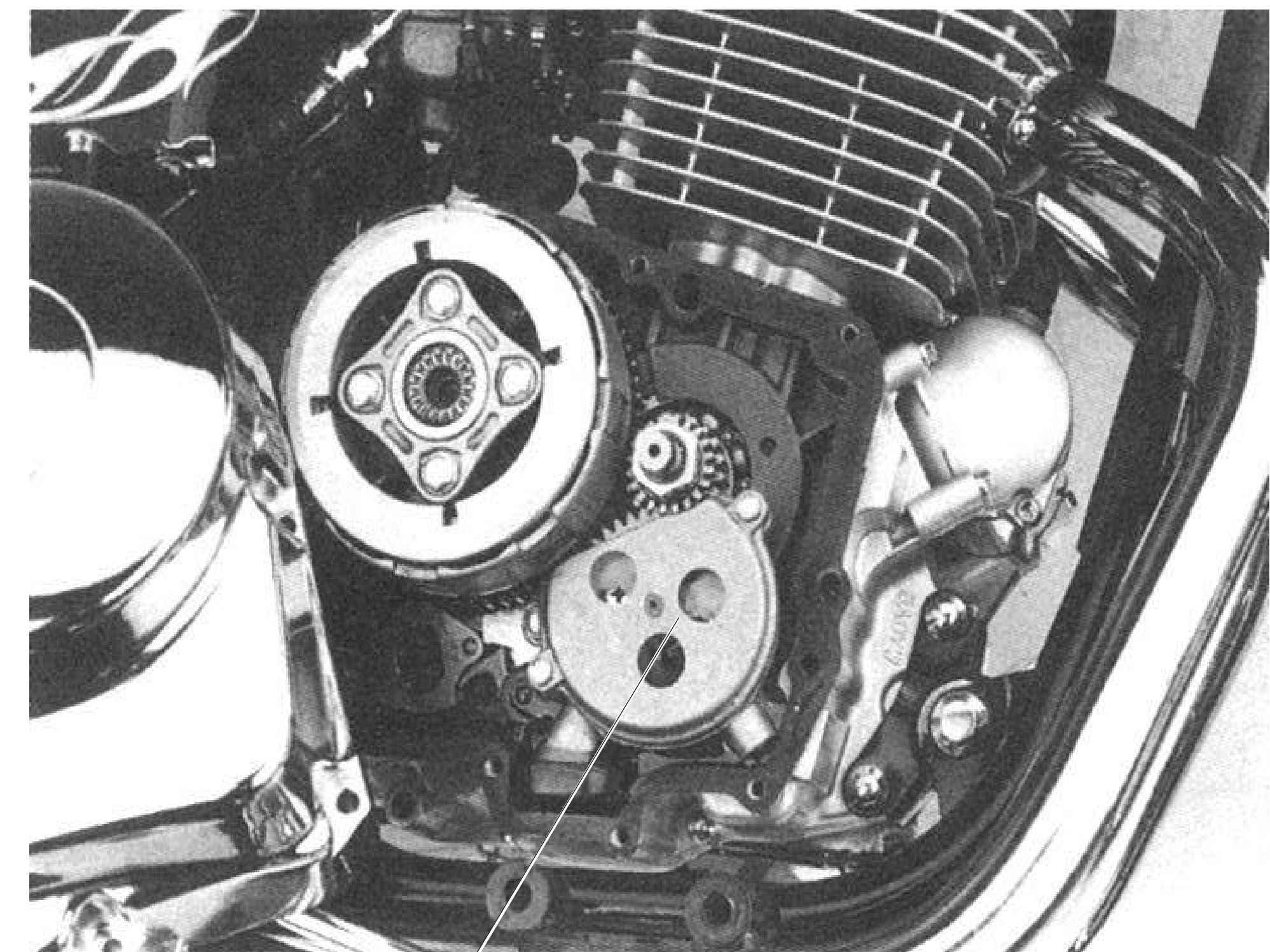
Place an empty container under the engine. Unscrew the drain screw ① to drain the oil completely and then tighten the drain screw. Add about 1.6L kerosene. After that, cut off the engine, press the starter button for several times to clean the components in the crankcase and then unscrew the drain screw. Tilt the engine for 2 to 3 hours. Add 1.9L new oil after the oil in the case is drained completely. If you go to a specified service dealer, you can require servicemen to open the right crankcase and remove the oil filter screen ② for cleaning.

### NOTE:

When riding on dust road, you should change the engine oil and clean the oil filter more frequently.



① Drain screw



② Oil filter screen

## SPARK PLUG SELECTION AND REPLACEMENT

### [Spark Plug Selection]

1. When riding usually at low speed or under low temperature in winter, you are recommended to select A5RTC spark plug of which center electrode is black
2. When riding usually at high speed or under high temperature in summer, you are recommended to select A7RTC spark plug of which center electrode is gray.
3. You are recommended to select A6RTC (furnished in the factory) under normal Conditions.

### [Spark Plug Inspection and Replacement]

Disconnect the spark plug cap from the spark plug.  
Clean any dirt from around the spark plug bases.  
Disassemble the spark plug using the spark plug wrench in the tool kit and clean deposits or carbon fouling with a wire brush. Inspect the electrode and central porcelain for damage or erosion. If the erosion or damage is heavy, replace the plug.  
Check the gap of spark plug side electrode ① using a feeler gauge and adjust the gap to 0.6-0.7mm  
Make sure the plug washer is in good condition  
Condition

Thread the spark plug in by hand to prevent cross-threading and then tighten it with a spark plug Wrench.

### **Carburetor Idle Speed Regulation**

Start the engine and have it warmed up, then do as follows when the temperature rises.

Turn the idle speed bolt ① (see the picture on the next page) to  $1500 \pm 150$  rpm. And turn this bolt clockwise to increase the idle speed, while turn it anticlockwise to reduce the idle speed.



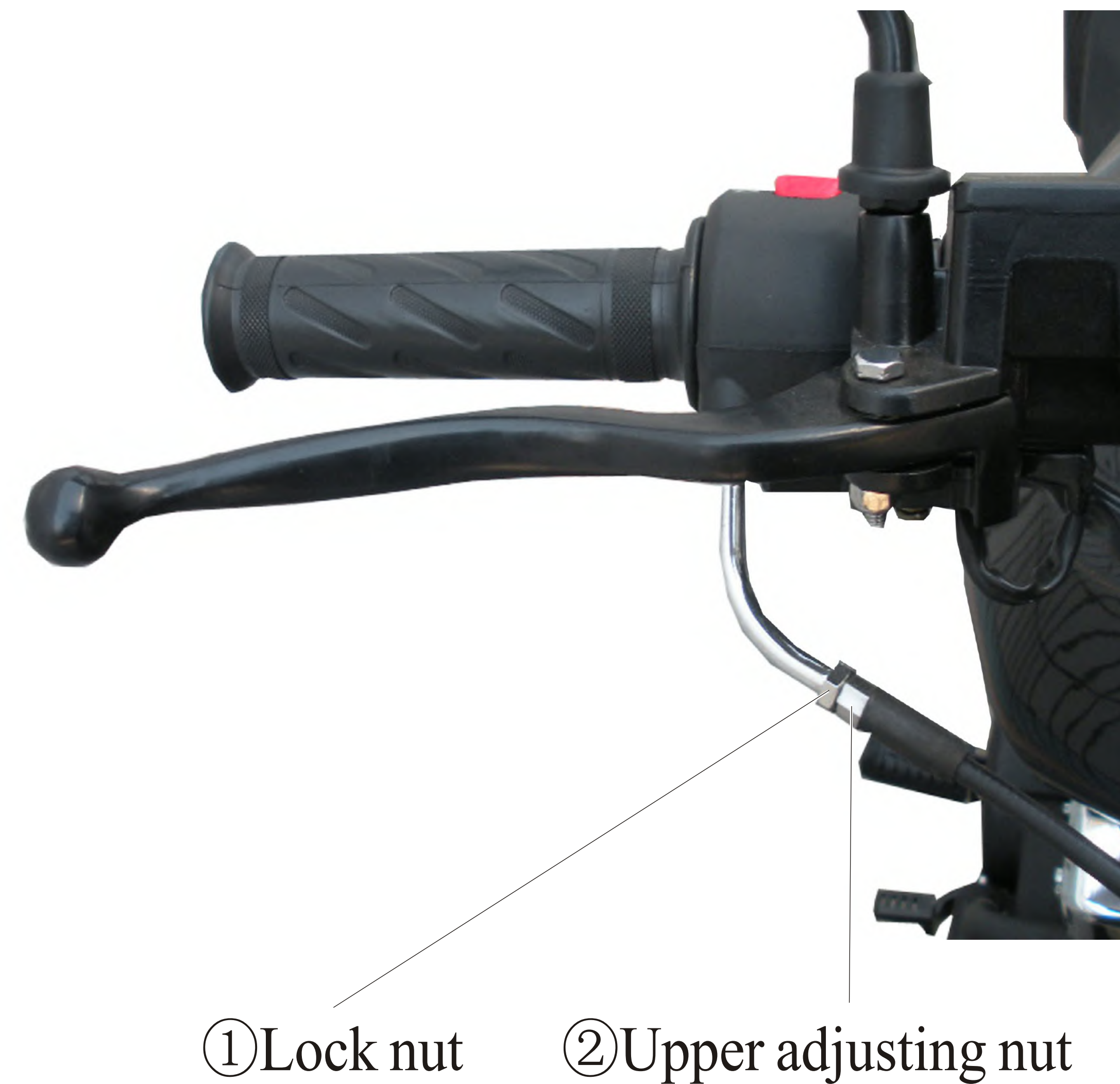
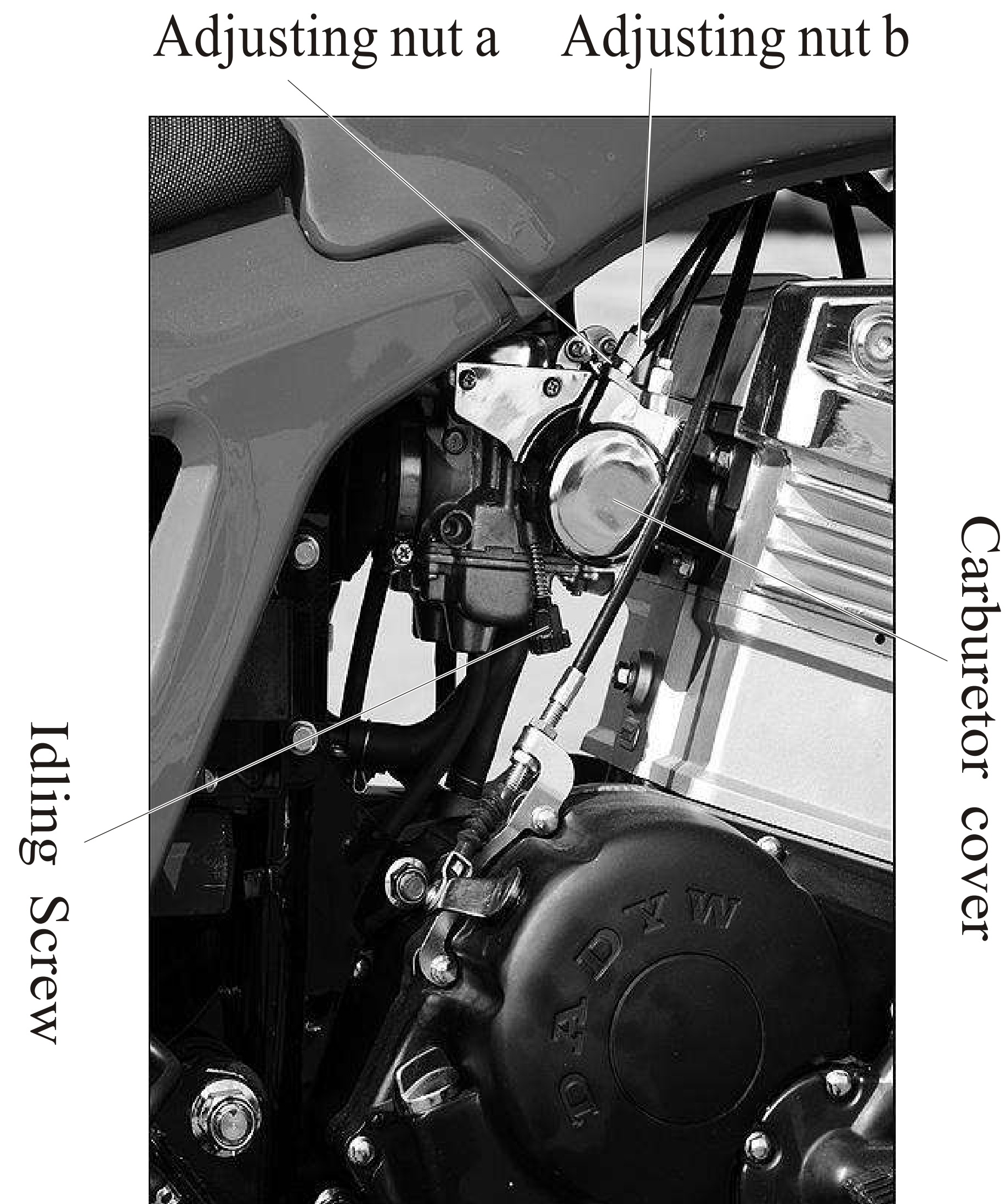
① Side electrode

## THROTTLE INSPECTION AND ADJUSTMENT

### [Throttle Cable Inspection]

Check for smooth throttle grip full opening and full closing in all steering positions. Check that the throttle cable between the throttle grip and the carburetor is proper. If the cable is twisted or improper, replace the cable or put it in proper position.

Free play at the tip of the throttle grip is 2 to 6mm. If necessary, unscrew the lock nut and turn the upper adjusting nut . If not enough, adjust the adjusting nut a and b until it is proper.



## AIR CLEANER REPLACEMENT

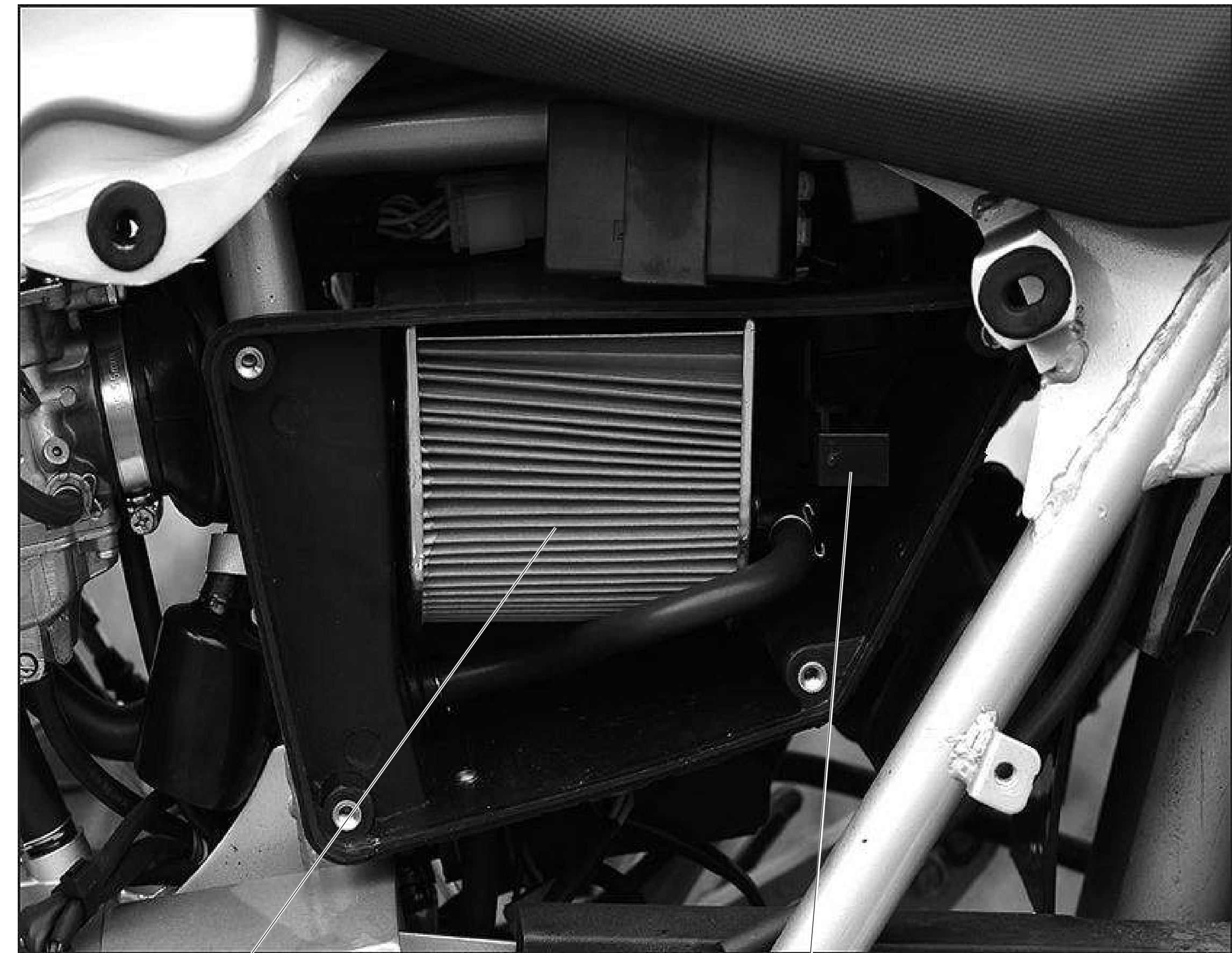
The air cleaner should be serviced at regular intervals. Service more frequently when riding in unusually wet or dust areas.

Remove the frame cover, unscrew all bolts and remove the air cleaner cover .

Take out the locator, remove the air cleaner element and install a new air cleaner element . Use new air cleaner or high-quality air cleaner specified for your model in the service manual. Using the wrong air cleaner which is not of equivalent quality may cause premature engine wear or performance problems. Install the removed parts in the reverse order of disassembly.



① Air cleaner cover ② Bolts

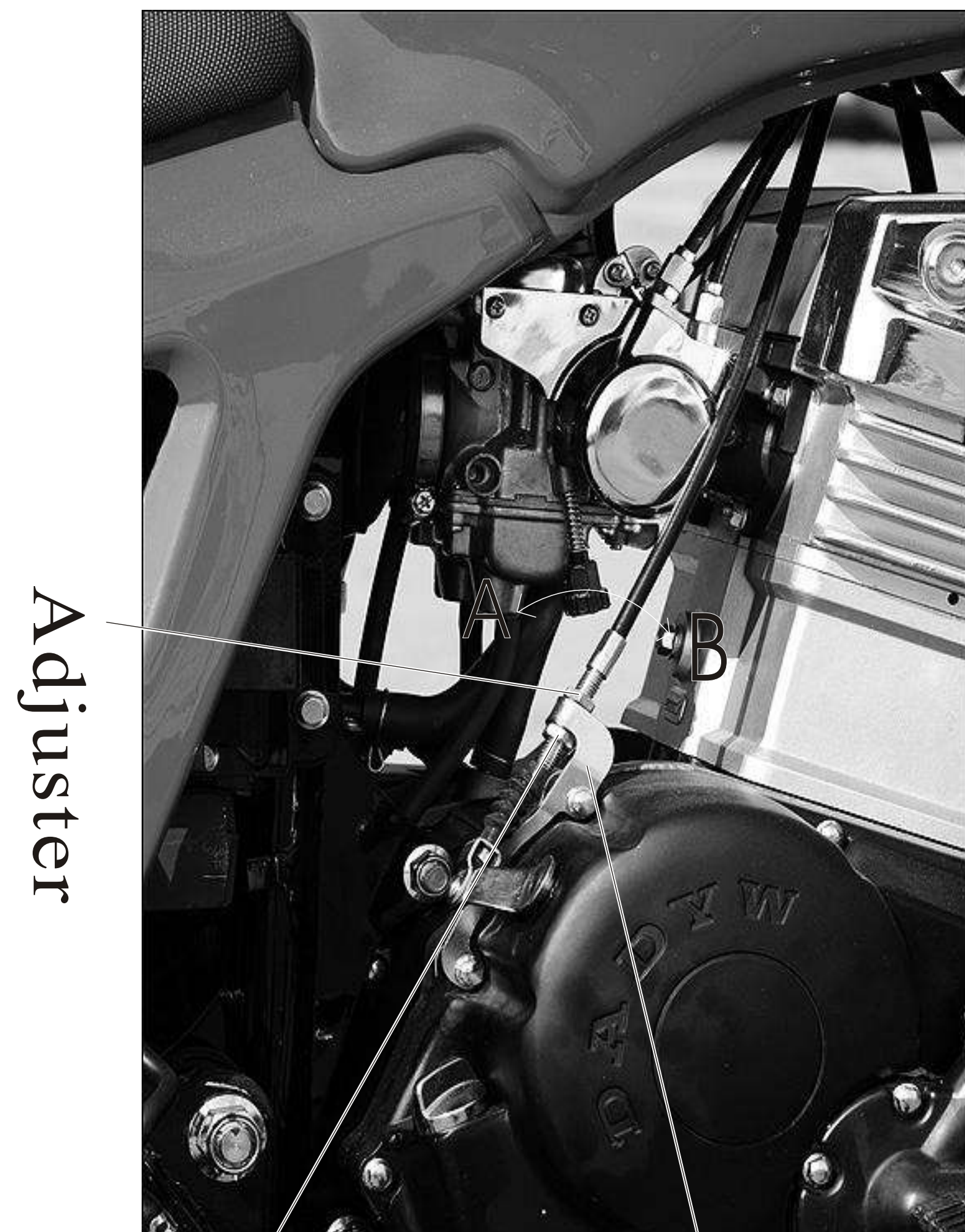


④ Air cleaner element ③ Locator

## CLUTCH ADJUSTMENT

Free play at the tip of the left clutch lever is 10 to 20mm. If adjustment is necessary, unscrew the lock nut positioning the clutch cable on the locator of the crankcase and adjust it. Turn the lever as (A) shows to decrease free play. Turn as (B) shows to increase.

The same for the adjuster on the left clutch lever.



Locator ① Lock nut



Adjuster

## DRIVING CHAIN CHECK, ADJUSTMENT AND LUBRICATION Driving Chain Check

Check for wear of the driving chain. Lubricate it when it is short of oil. Use the center stand to support the motorcycle, and step on the gearshift pedal to shift into neutral. Place your finger between both front and rear wheels, and swing the chain up and down to adjust the chain to 10~20mm.

### [Driving Chain Adjustment]

Screw off the rear wheel axle nut and the lock nut ③ of the driving chain adjuster ④ and turn the adjuster accordingly. Place both left and right adjuster with the same mark, check for its tension and then screw the rear wheel axle nut.

After adjusting the driving chain, position the rear wheel again as if will adversely affect the free play of the rear brake pedal.

### [Driving Chain Lubrication]

Remove a chain lock clip with pliers carefully and disassemble the chain. Clean the chain in the detergent solvent and then dry it. Check for wear and damage of every part of the chain. If necessary, replace it.

Lubricate the chain with an appropriate amount of motor oil or chain lubricant oil. Install the driving chain in the reverse order of disassembly and adjust it.



Rear Wheel Axle Nut



Chain Lock clip Mark Lock Nut Adjuster

**NOTE: when installing the chain lock clip, keep the mouth of the clip opposite to the normal moving direction**

## FRONT FLUID DISC BRAKE

### [Brake Fluid]

Pay attention to the fluid level in the brake fluid reservoir of the right brake lever. If the level descends, add the brake fluid specified by our company. If the brake shoe wears, the fluid level will descend as the fluid automatically flows into the fluid tube. Checking and adding brake fluid is an important part of fluid disc brake regular maintenance.

### WARNING

The brake fluid has strong corrosion. If it is drunken wrongly, force to spit it out. If eyes or skin are contacted with it, clean with plenty of water and see a doctor.

1. NEVER use the fluid that has been used or that in an open container .NEVER use the fluid lftlast time or that having been stored for a longperiod of time as the fluidhas absorbed water from the air.
2. The brake fluid is strongly corrosive. NEVER have the fluid spattered on paintd or plastic suiface .

Brake fluid reservoir



Brake calipers Brake disc

## [Brake Disc]

The brake disc will be worn after being used for a period of time. In order to ensure that the brake system can function properly and reliably, replace the disc when it is extremely worn. The limit of motorcycle brake disc is 3.5 mm, the same marked on the brake disc.

### WARNING

Don't ride your motorcycle after you have just replaced the disc with a new one. Grasp and release the front brake lever several times until the brake disc fits the brake calipers well, thus returning the front brake lever to normal free play.



Wear mark

Brake disc

## [Brake System]

Pre-ride inspection must be performed every day on the following items:

- A) Check the fluid level In the fluid reservoir;
  - B) Check the brake system for fluid leakage;
  - c) Check the fluid tube and the reservoir for leaks or cracks;
  - d) Check wear of the brake disc;
  - e) Ensure the right and
- A. unchanged free play for the front brake lever at any time.

### WARNING

1. The fluid disc brake operates under high pressure. To make sure of safe riding, replace the fluid tube, the reservoir and the fluid at the frequency interval no longer than that has been established in the manual.
2. If it is necessary to maintain the brake system or the disc, go to your authorized service dealer for the sake of Safety.



## REAR FLUID DISC BRAKE

### [Brake Fluid]

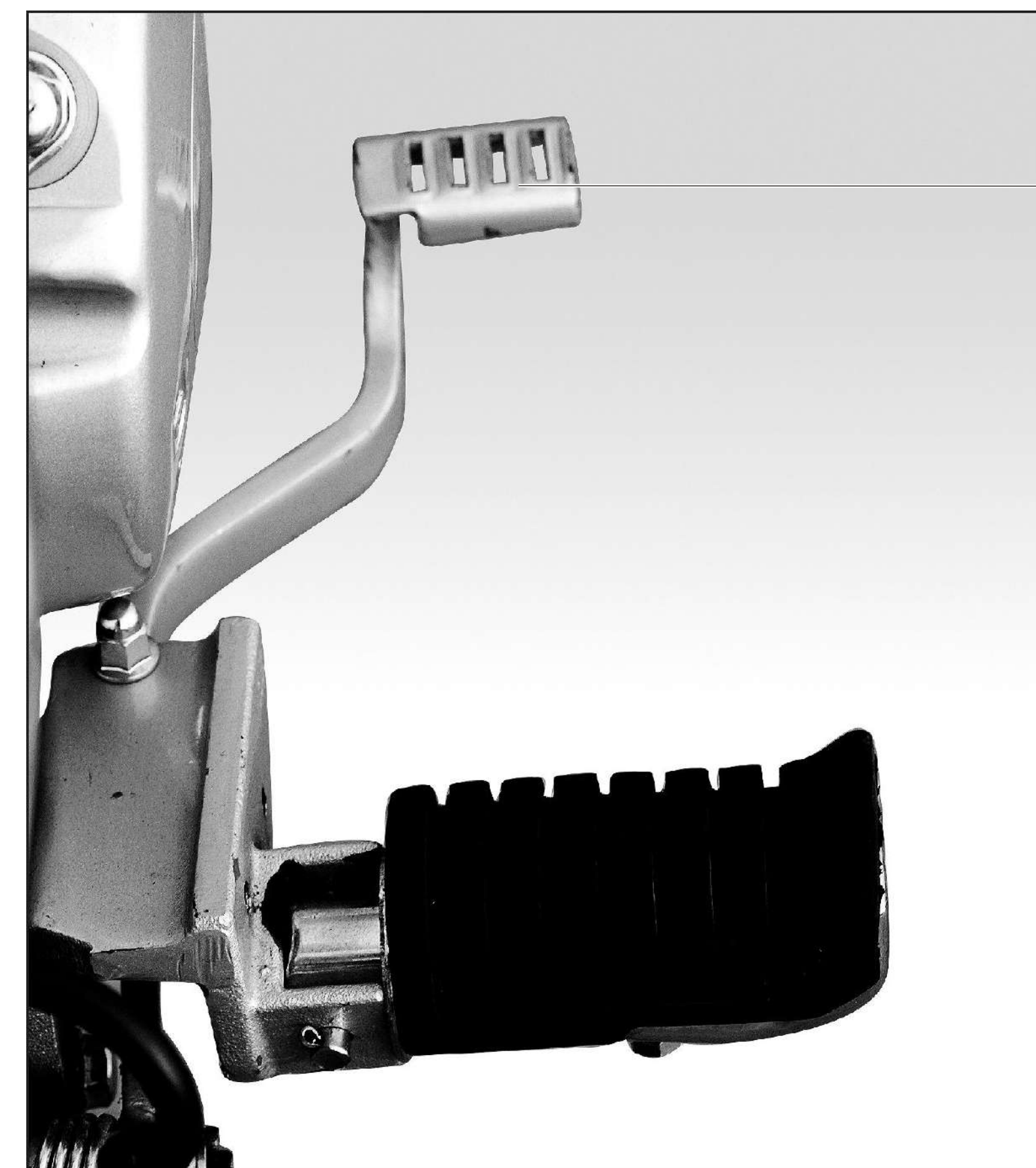
Pay attention to the fluid level in the rear brake fluid reservoir. If the level descends, add the brake fluid specified by our company. If the brake shoe wears, the fluid level of the rear brake fluid reservoir will descend as the fluid automatically flows into the fluid is an important part of fluid tube. Checking and adding brake fluid is an important part of fluid disc brake regular maintenance.

### WARNING

The brake fluid has strong corrosion. If it is drunken wrongly, force to spit it out. If eyes or skin are contacted with it, clean with plenty of water and see a doctor.



Brake Fluid



Brake Pedal

1. Never use the fluid that has been used or that in an open container. Never use the fluid left last time or that having been stored for a long period of time as the fluid has absorbed water from the air.
2. The brake fluid is strongly corrosive. Never have the fluid spattered on painted or plastic surface.

## [Brake Disc]

The brake disc will be worn after being used for a period of time. In order to ensure that the brake system can function properly and reliably, replace the disc when it is extremely worn. The limit of motorcycle brake disc is 3.5mm, the same marked on the brake disc.

### WARNING

Don not ride your motorcycle after you have just replaced the disc with a new one. Grasp and release the front brake lever several times until the brake disc fits the brake calipers well, thus returning the front brake lever to normal free play.



## [Brake System]

Pre-ride inspection must be performed every day on the following item:

- A. Check the brake system for fluid leakage;
- B. Check the fluid tube and the reserve air for leaks or cracks;
- C. Check wear of the brake disc;
- D. Ensure the rear brake step pole unchanged free play for the front brake lever at any time.

### WARNING

1. The fluid disc brake operates under high pressure the fluid at the frequency interval no longer than that has been established in the manual.
2. If it is necessary to maintain the brake system or the disc, go to your authorized service dealer for the sake of safety.

## FRONT WHEEL DISASSEMBLY AND REPLACEMENT

Screw off the lock bolt . Remove the odometer cable and axle nut . the front wheel axle ,  
The front wheel (involving the brake disc) and the Speedometer .  
To replace the front wheel or brake disc, unscrew the brake disc lock bolt and remove the brake  
Disc . Install a new wheel in the reverse order of disassemble.



⑥                      ①                      ⑤

Front wheel axle    Speedometer  
Brake disc        Axle nut

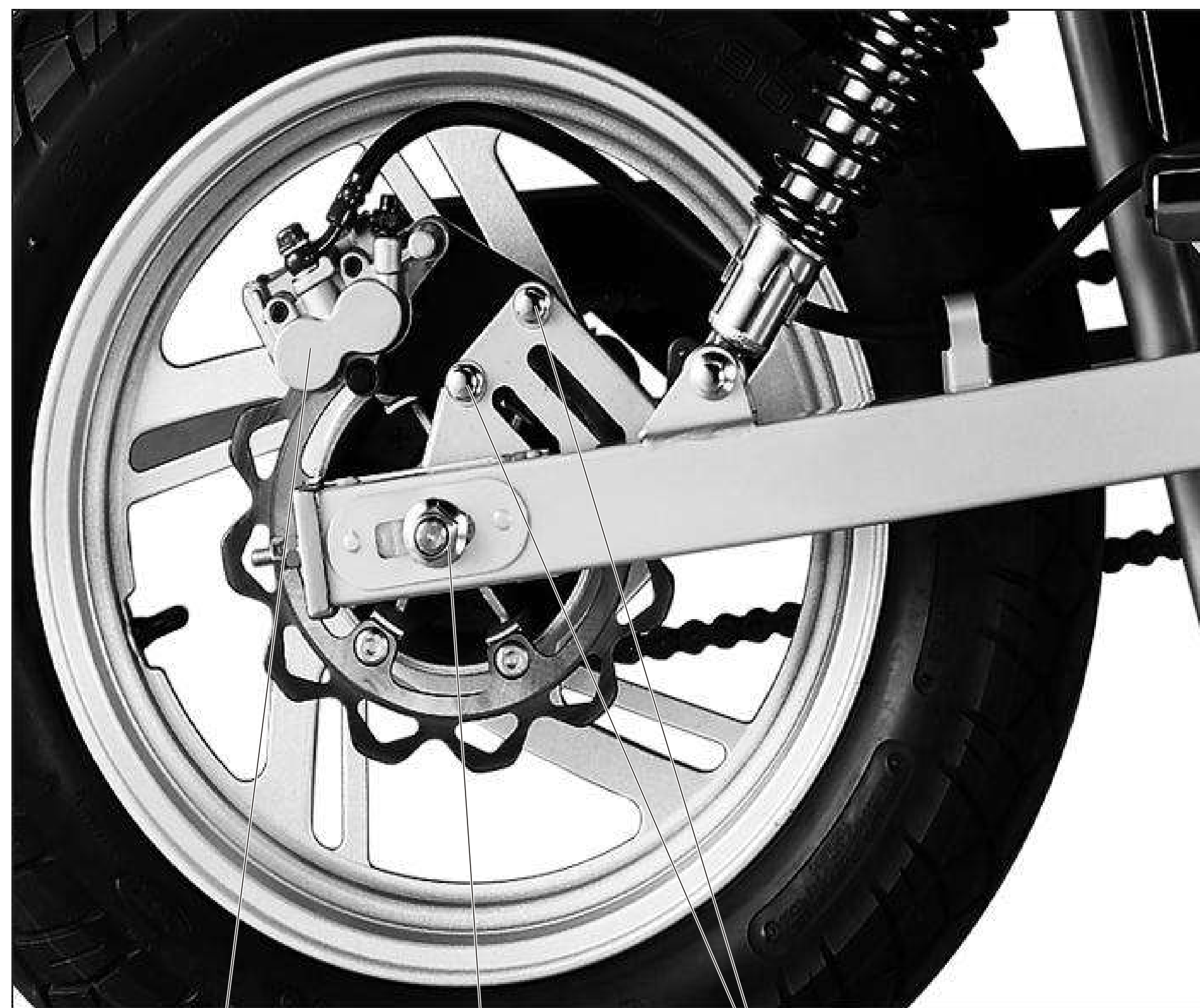


④                      ②                      ③

Lock bolt        Brake disc lock bolt

## REAR WHEEL DISASSEMBLY AND REPLACEMENT

Use a jack to raise the motorcycle's rear wheel off the ground. Screw off the rear brake disc adjusting nut①and disconnect the brake arm③unscrew the drive gear adjusting nut④and adjusting nut⑤, hitch the other side of rear axle with a wrench, remove the rear wheel axle nut②tack out the rear wheel axle, move the rear wheel axle forward and remove the driving chain from the drive gear, thus taking out the rear wheel. NOTE: Installation is in the reverse order of removal①Rear brake disc adjusting nut ②Rear axle nut ③Rear wheel axle④Drive gear adjusting nut⑤Adjusting nut



③ ② ①



④ ⑤

Front/rear wheel axle nut torque:40-50N.m, Apply the brakes for several times after adjusting the rear brake and the chain and installing the front and rear wheels, and then release both front and rear brakes to check that the wheels rotate properly.

## ACCUMULATOR MAINTENANCE

The motorcycle is supplied with 12V9A.h DC by a lead-acid accumulator.

When riding the motorcycle, insufficient electrolyte in the accumulator will cause sulfuration and damage to its polar plate.

If electrolyte in the accumulator runs out quickly, insufficient electrolyte will lower strength of current thus making it hard to start the engine or bringing other trouble to the electrical system. See the authorized dealer for repair.

Regularly check electrolyte in the accumulator that is under the right side frame cover. The electrolyte level should be between the upper and lower levels marked on the front side face of the accumulator. If the electrolyte is below the lower level, take the accumulator out of the motorcycle, remove its cap and add distilled water carefully up to the upper level.

### CAUTION

1. When checking electrolyte or adding distilled water, make sure that the air tube is well connected with the air outlet of the accumulator.
2. Use only distilled water. Tap water will shorten the service life of the accumulator
3. Remove the accumulator from the motorcycle to prevent its discharge and leakage when you are not to use your motorcycle for a long period of time. When Removing, take the negative wire apart first. After charging, store the accumulator in a well-ventilated area free of direct sunlight. If you want to store The accumulator in the motorcycle, you should remove the negative wire.
4. Regularly clean both positive and negative posts after removing the accumulator. To reinstall the accumulator, put the positive wire on the accumulator first and Then negative wire. Make sure that both positive and negative posts are firm.
5. Replace with an equivalent specified accumulator.

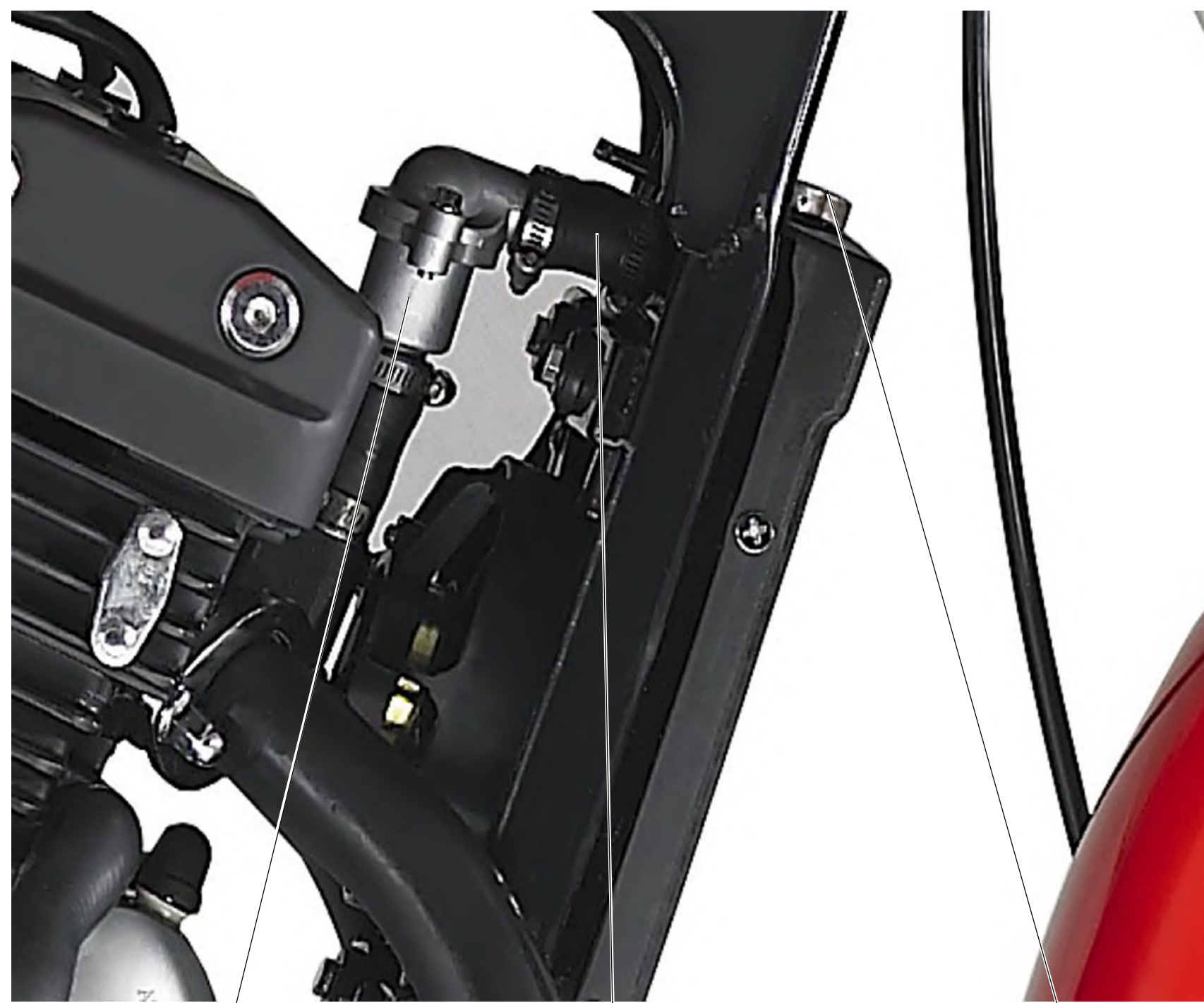
## COOLING SYSTEM

### [The coolant]

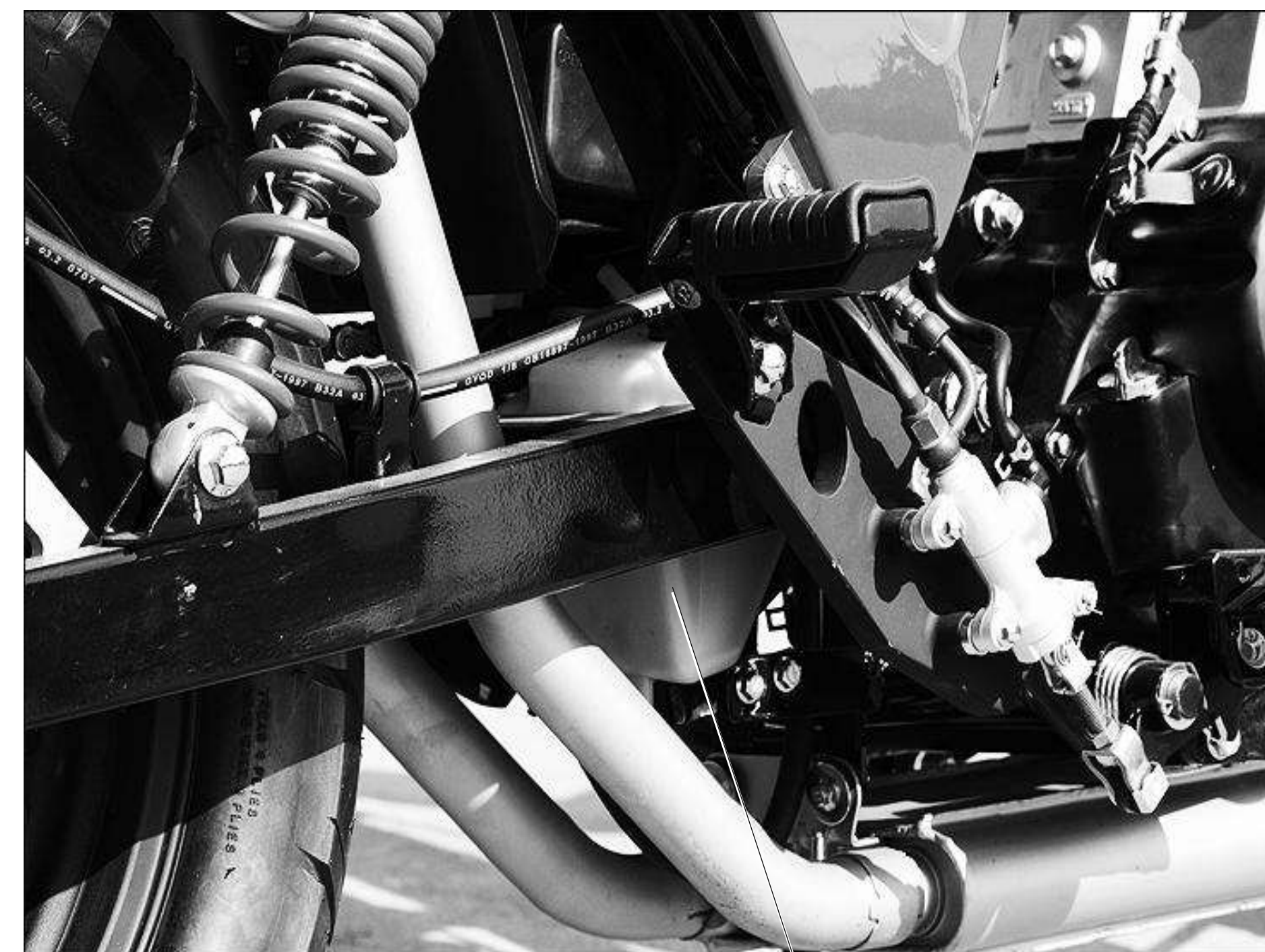
The coolant consists of refrigerant and distilled water, has the function of antifreezing. The coolant will prevent engine from overheating produced in neutral rotation or rotating in low speed. It also prevents radiator from harmful substances.

### [Inpouring of coolant]

- ① Place the motorcycle on flat ground, unfold the side stand.
- ② Unscrew the temperature control cap, and pour the coolant into the radiator until it is filled.
- ③ Screw the cover on the radiator tightly.
- ④ Start the motorcycle. When the temperature of the coolant reaches about 80°C, stop the engine for 5 minutes, then open the radiator to pour in the coolant until it is filled, and screw on the cap tightly. Pour the coolant circularly in this way until the radiator is filled. Then the total capacity of coolant will reach 1600ml.
- ⑤ Open the cap of the reserve tank (kettle), and pour 400ml of coolant into it. The position of these 2 caps is as indicated in picture 1 and picture 2.



④ sensor ③ water pipe ① temperature control cap



② kettle cover

### **[replacement of coolant]**

When the coolant became turbidness or runs for one year, the coolant should be replaced.

Procedures:

- ① Place the engine on the flat ground and unfold the side stand.
- ② When the engine is under room temperature, unscrew the temperature control cap, and remove the release-coolant bolt from the cap of water tube. After all the coolant is released, screw on the release-coolant bolt and the cap of radiator back.. the position of water tube is as indicated in picture 3

### **[function of sensor]**

When the temperature of engine reaches about 125°C, the sensor switch is on, so the coolant temperature alarm lamp in the instrument lights up, showing that the engine needs a rest from work, otherwise the life of the engine will be affected because of overheating. The position of sensor is as indicated in picture 4.

### **[caution]**

- ① Please use 3500 antifreezing antirust coolant.
- ② The coolant is poisonous, so it is unedible.
- ② It is forbidden to open the cap of radiator when the engine is in a state of high temperature, in case that the hot water with big pressure spurt out to harm anyone.
- ③ When repairing, please release all the coolant first if it is necessary to unscrew the cylinder nut, in case that the coolant comes into the crankcase.

### **[servicing system maintenance]**

Check whether it is aleak per 400km.

- ① Check whether there's a leak in the joint of water pump and water tube.
- ② In order to check whether the circulator is damaged and aging, you can press the water tube by hand to see whether it has cracks, so that you can replace it in time. If there's a leak, please feedback to the maintenance man. Don't remove it privately.

## FUSE REPLACEMENT

Remove the right guard board by loosening the cross screw on it and open the fuse box(white) to replace the fuse. There are 2 spare fuses for your motorcycle. Reinstall the guard board in the reverse order of removal and fix it after replacement. The specified fuses are 15A.

When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized service dealer for repair.

### CAUTION:

Replace with the specified fuse. Never use other conductive materials for replacement. Turn the ignition switch off ( turn to " (⊗) ") before checking or replacing fuses to prevent accidental short-circuiting. To replace the fuse in the fuse box, remove the fuse box cover. Pull the old fuse out of clips. Push a new fuse into the clips and install the fuse box cover.



## CLEANING

Clean your motorcycle regularly to protect the surface finishes and inspect it for damage, wear and oil seepage.

**CAUTION:**

① High pressure water can damage certain parts of the motorcycle. Avoid spraying high pressure water at the following areas: ignition switch, handlebar switches, instruments, muffler outlet and underseat.

② Prevent water from flowing into the muffler, spark plug and Accumulator

1. After cleaning, rinse the motorcycle thoroughly with plenty of clean water. otherwise, these repairs may be forgotten by the time the motorcycle is removed from
2. Dry the motorcycle thoroughly. Start the engine and let it run for several minutes.
3. Lubricate the driving chain.
4. Test the brakes before riding the motorcycle in traffic. Several applications may be necessary to restore normal braking performance.

**WARNING: Braking performance may be impaired immediately after washing the Motorcycle.**

## STORAGE GUIDE

Extended storage, such as for winter (exceeding one month), requires that you take certain steps to reduce the effects of deterioration from non-use of the motorcycle. In addition, necessary repairs should be made BEFORE storing the motorcycle;

**Storage.**

1. Clean and dry the motorcycle. Wax all painted surface.
2. Drain the fuel tank and carburetor. Spray the inside of the tank with aerosol rust-inhibiting oil.
3. Remove the spark plugs and pour a tablespoon (15-20 ml) of clean engine oil into each cylinder. Press the starter button for several times after turning off the ignition switch to diffuse the engine oil evenly in the cylinders, and then reinstall the spark plugs.
4. Remove the accumulator. Store in a well-ventilated, dry, and cool area protected from direct sunlight.

**NOTE:** To remove the accumulator, dismantle the negative wire and then positive wire.

When installing, fix the positive wire first and then negative and close the ignition switch

5. Inflate the tyres to their recommended pressures. Place the motorcycle on blocks to raise both tyres off the ground.
6. Cover the motorcycle using cloth or other strongly air-permeable materials and store in a well-ventilated area, free of rain and direct sunlight with a minimum of daily temperature variation.

## REMOVAL FROM STORAGE

1. Uncover and clean the motorcycle.
2. Check the accumulator voltage. When the voltage is 12.3V below, slowly charge the accumulator as required. Install the accumulator.
3. Drain any rust-inhibiting oil from the fuel tank. Fill the fuel tank with fresh Petrol.
4. perform all pre-ride inspection checks. Test ride the motorcycle in a safe area from traffic. Check that the motorcycle functions properly.

## MAINTENANCE

Clean the motorcycle off dust and mud with dry cloth regularly. Dry the motorcycle when it is wet. Apply a little rust-inhibiting oil on zinc-coated and chrome-coated parts. Wax the painted parts to keep them bright and elegant. Lubricate every moving part. Inflate both front and each tyres properly. Measure the pressure with a gauge and make it in accordance with the specified requirements  
Check for bolts, nuts and screws to prevent a safety hazard resulting from loosening or falling-off of parts.  
Check for both front and rear brakes. Immediately adjust and replace if they are excessively worn or don't function properly.

## MAINTENANCE SCHEDULE

Perform the pre-ride inspection at each scheduled maintenance period. Symbols in the table stand for as follows:

1. INSPECT, CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY  
C: CLEAN R: REPLACE A: ADJUST L: LUBRICATE I: INSPECT

Should be serviced by your authorized service dealer unless the owner has proper tools and parts or is mechanically qualified.

In the interest of safety, we recommend these items be serviced only by your authorized service dealer

## NOTES

- ① Service more frequently when riding in unusually dusty areas.
- ② At higher odometer readings, repeat at the frequency interval established here.
- ③ Adjustment of the timing chain tension and the air valve clearance should be made only by your authorized service dealer for the sake of safety.

ITEM	FREQUENCY	CYCLES	ODOMETER READING km(NOTE 2)				
			1000km	4000km	8000km	12000km	REMARK
*	FUEL LINE		I	I	I	I	
*	THROTTLE OPERATION		I	I	I	I	
*	CARBURETOR			I	I	I	
	AIR CLEANER ELEMENT	NOTE 1	C	C	C	C	
	SPARK PLUG		I	I	I	I	
	ENGINE OIL	EVERY YEAR R	First replace the engine oil when the bike runs for 500km, and then replace it every other 3000km				
*	ENGINE OIL FILTER SCREEN	EVERY YEAR R					
**	TIMING CHAIN TENSION	NOTE 3	A	A	A	A	
**	VALVE CLEARANCE	NOTE 3	I	I	I	I	

ITEM	FREQUENCY	CYCLES	ODOMETER READING km (NOTE 2)				
			1000km	4000km	8000km	12000km	REMARK
	DRIVE CHAIN		I.L	I.L	I.L	I.L	
	REAR BRAKE SYSTEM			I	I	I	
	BRAKE SHOE WEAR			I	I	I	
**	BRAKE FLUID TUBE	Every 4 years R	I	I	I	I	
**	BRAKE FLUID RESERVOIR		I	I	I	I	
**	BRAKE FLUID	Every 2 years R	Change every 2 years				
**	FRONT BRAKE SYSTEM		I	I	I	I	
*	REAR BRAKE LIGHT SWITCH		I	I	I	I	
	FRONT AND REAR LIGHTING	One month	I	I	I	I	
	CLUTCH		I	I	I	I	
*	SUSPENSION		I	I	I	I	
	STAND		I	I	I	I	
*	NUTS,BOLTS	One month	I	I	I	I	
**	WHEEL/SPOKE	Three months	I	I	I	I	
**	STEERING HANDLE BEARINGS	Six months	I			I	
**	COOLAND		I	I.R	I.R	I.R	

# NAC MOTORCYCLE SPECIFICATIONS

Part name	Item	Unit	Model or technical parameters	Part name	Item	Unit	Model or technical parameters
Complete Vehicle	Overall	mm	2135×825×1140	Engine	Model		DD244MI
	wgeelbase		1480		Type		Single cylinder 4 stroke, Overhead camshaft
	Kerb weight	kg	165		Displacement	ml	125
	Rated load		150		Minimum fuel-consuming ratio	g/kw. h	367
	Maximum speed	km/h	» 95		Compression ratio		10.2:1
	Front type size and Pressure		90/90-18 225kpa		minimum idle speed	rpm	1500±100
	Rear type size and Pressure		130/90-15 225kpa		Spark plug gap	mm	0.6~0.7
	Fuel tank	L	18.5		Fuel type		RQ-93
Reserve fuel	2.7		Lubrication type		SAE10W/40API SG		
Electrical	Ignition		CDI electric ignition	Rated power	Kw	7.8 (9500r/min)	
	Headlight		12V35W/35W	Transmission		Normally joggled five gears	
	Turn signal light Front/Rear		12V10W/3W(12V10W)	Primary drive ratio		3.631	
	Tail/brakelight		12V21/5W	First drive ratio		2.769	
	License plate light		12V10W	Second drive ratio		1.882	
	Spark plug		A6RTC	Third drive ratio		1.45	
	Accumulator		12V9A.h	Fouth drive ratio		1.217	
	Fuse		15A	Fifth drive ratio		1.083	
	Horn		12V 105dB	Terminal		3.143	
					Fan initial temperature	°C	85
				Reflector initial temperature	°C	125	
				Coolant capacity	L	1.6	
				Coolant type		3500 antifreeze aritirust	
				Cooling system			