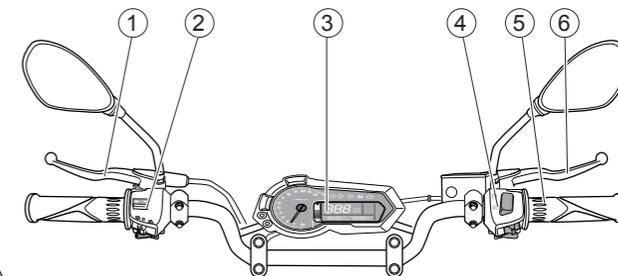
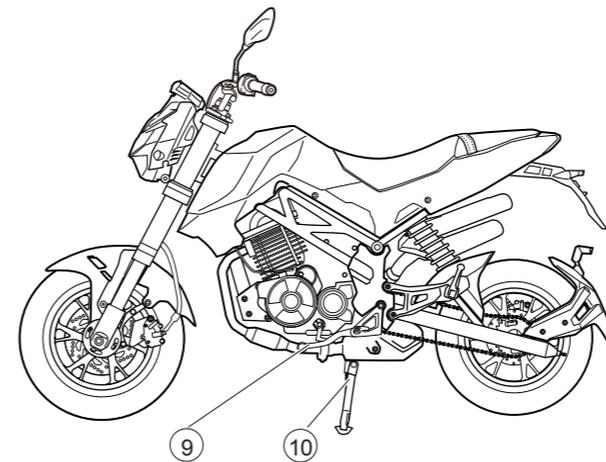


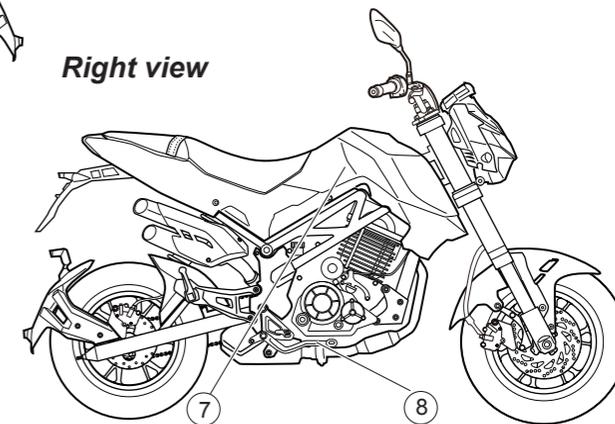
# TNT135

## DESCRIPTION

*Left view*

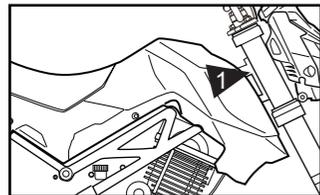


*Right view*

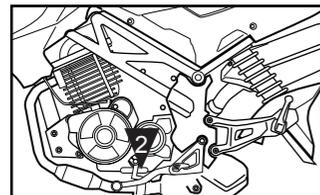


- |                       |                    |
|-----------------------|--------------------|
| ① Clutch lever        | ⑦ Fuel tank        |
| ② Left handle switch  | ⑧ Rear brake pedal |
| ③ Meter               | ⑨ Shift pedal      |
| ④ Right handle switch | ⑩ Side stand       |
| ⑤ Throttle grip       |                    |
| ⑥ Front brake lever   |                    |

## CONSUMER INFORMATION



Vehicle identification number (VIN)



engine serial number

|            |
|------------|
| VIN No.    |
|            |
| ENGINE No. |
|            |

- The vehicle identification number ① is stamped on the right side steering head tube.
- The engine serial number ② is stamped on the lower left of the engine.

### TIP

The vehicle identification number or the engine serial number are used to register the vehicle, they are also to assist your dealer in terms of ordering parts or referring to special service information

## INSTRUMENT AND CONTROL FUNCTIONS

“⊗” (Off) position:  
All the circuits are off.

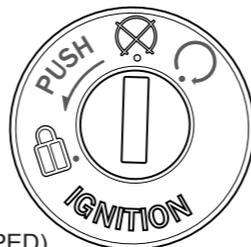
“⊙” (On) position:  
The circuits are on.

“P” (Parking): (IF EQUIPPED)  
The taillight, license plate light and auxiliary lights are on. The hazard lights and turn signal lights can be turned on, but all other electrical systems are off. The key can be removed.

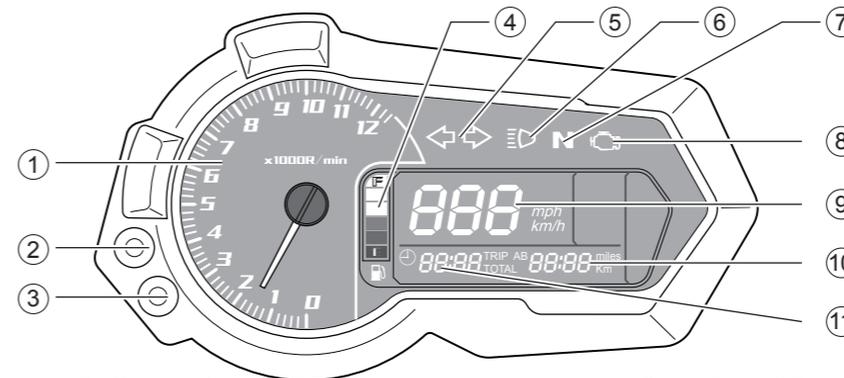
“🔒” (The steering lock) (IF EQUIPPED)  
Turn the steering handle to left, press the key to “🔒” position, the steering lock is locked. When it needs to open, insert the key and turn to “⊗” position, the steering lock is released;

### NOTICE

Do not turn your key to lock the vehicle while driving which is not necessary and is also apt to cause accident.  
Press the key in a proper force.



## Meter & Indicator



### 1. TACHOMETER

Tachometer indicates the revolution per minute of engine.

### 2. ADJUST BUTTON

Short press the button to switch between km/h and mph. Long press the button to reset the "Trip" mileage.

### 3. SELECT BUTTON

Short press the button to switch between trip and odometer functions on the meter. Press button "SELECT" for several seconds, there will appear the interface for time adjustment: "SELECT" for selection of digits of time display and "ADJUST" for adjustment of each value.

### 4. FUEL LEVEL INDICATOR:

It indicates the fuel level in the fuel tank.

### 5. TURNING INDICATOR

The indication lamps would flash with the turning signals.

### 6. HIGH BEAM INDICATOR LAMP

When the high beam lamp of the headlamp turns on, the high beam indicator lamp would be on.

### 7. NEUTRAL INDICATOR LAMP

When the transmission is in the neutral, the indicator lamp would be on.

### 8. ENGINE CONTROL SYSTEM TROUBLE INDICATOR:

Return to authorized dealer if this indicator is activated during riding.

### 9. SPEEDOMETER

Speedometer shows the running speed, hours/kilometers.

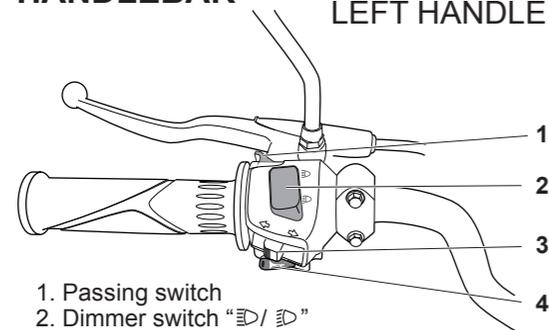
### 10. ODOMETER & TRIP METER:

Relative mileage (TRIP): it records the mileage the vehicle covers in a period of time. Odometer (TOTAL): it records the total mileage the vehicle has covered in km.

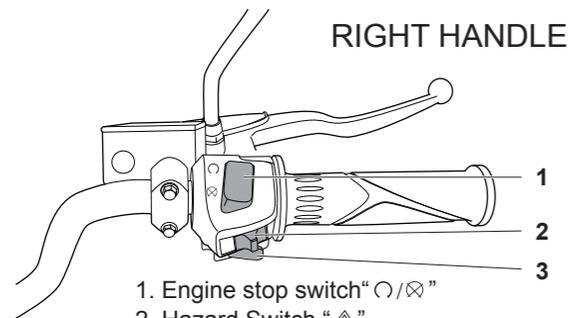
### 11. CLOCK

It shows the time.

## HANDLEBAR



1. Passing switch
2. Dimmer switch “/ ”
3. Direction indicator lamp switch “/ ”
4. Horn switch “”



1. Engine stop switch “”
2. Hazard Switch “”
3. Electric starter button “”

### Dimmer switch

Turn the switch to “” position, the high beam of headlamp turn on and the indicator lamp on the meter would also turn on; turn the switch to “” position, the low beam of headlamp turn on.

### Direction indicator lamp switch

Turn the switch to “” position, the left direction signal lamp flashes; turn the switch to “” position, the right direction signal lamp flashes. And the indicator lamps would turn on accordingly.

### WARNING

**Turn on the direction signal lamps in time when changing the driveway or turning a direction and turn off the lamps.**

### Passing switch (IF EQUIPPED)

When passing other vehicles, press this button so the high beams of the headlamp would flash to alarm the vehicles in front of you.

### Horn button

Press down on the button, to activate the horn.

### Engine stop switch (IF EQUIPPED)

When the switch is on “” position and the power is on, the engine runs. When the switch is on “” position and the power is off.

### NOTICE

**Under normal conditions, this switch shall be on “Operate” ( ) position. Use this switch under emergency situation, for example accident or key switch problems.**

### Electric starter button

Pull the clutch lever or put in Neutral gear and press the button to run the electric motor and start the engine.

### Clutch lever switch (IF EQUIPPED)

When starting the engine or shifting, pull the clutch lever to cut off driving on the rear wheel.

### Front brake lever

Pull the brake lever properly to use the front brake.

### Throttle grip

Throttle grip is to control the speed of engine. Twist the grip towards yourself when revving up or turn it in opposite way to slow down.

### Light switch (IF EQUIPPED)

Turn switch to position of “” to light up the front lamp; Turn to “” to light up meter lamp, city light and tail lamp.

### Hazard Switch

Turn to “” and the four direction signal lamps would flash to warn for emergency situation; turn to “” for daytime driving.

## FUEL TANK

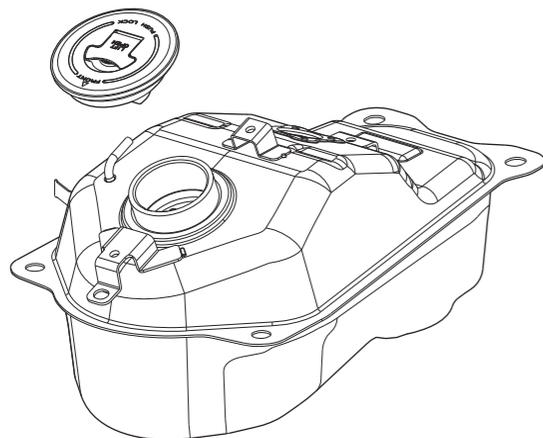
To open fuel tank cap, please insert the key and turn it clockwise and open the cover.

To close the fuel tank, please recap and then press it. Take away the key when you hear the sound of locking.



Use fuel identified by either of the above symbols.

1. Gasoline containing up to 5% ethanol by volume.
2. Gasoline containing up to 10% ethanol by volume.



**Recommended fuel:**  
**REGULAR UNLEADED  
 GASOLINE ONLY**  
**Fuel tank capacity:**  
 7.2 L

**⚠ WARNING**

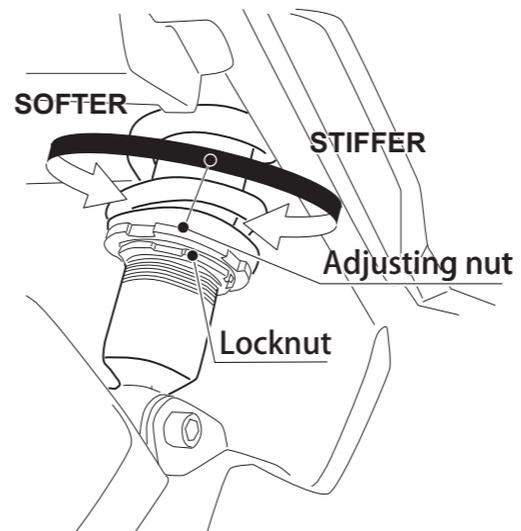
**Do not over fill the fuel tank. Do not make fuel splashes on hot engine.**

**Please stop the engine and turn the ignition key to " ⓧ " (Off) position when you need to refuel.**

**Do not forget to lock the fuel tank cover after adding the fuel in case of evaporation to the air, which is a waste of energy and would pollute the environment.**

### REAR SHOCK ABSORBER

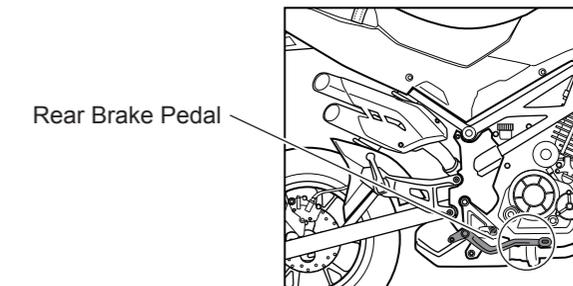
Each shock absorber is equipped with a spring preload adjusting ring the spring of the rear wheel can be adjusted in compliance with the driver's weight and loading condition, driving method and road conditions. Adjust when vehicle it is stable on the main stand or side stand, turn the preload ring to the place required.



| TORQUE VALUE                |
|-----------------------------|
| Upper fixing bolt: 37-44N.m |
| Lower fixing bolt: 22-29N.m |
| Adjustable                  |

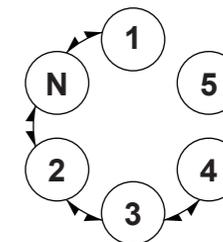
### REAR BRAKE PEDAL

Step the rear brake pedal to brake the rear wheel. Brake light will turn on while rear brake is in use.



### SHIFT PEDAL

Slow down the vehicle when turning to the low gear. Revving up the engine slightly to shift gears in more smooth way to avoid damaging gears.



## PRE-OPERATION CHECKS

Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

### **WARNING**

**Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by a dealer.**

Before using this vehicle, check the following points:

| ITEM       | CHECKS  |
|------------|---|
| Fuel       | <ul style="list-style-type: none"><li>• Check fuel level in fuel tank.</li><li>• Refuel if necessary.</li><li>• Check fuel line for leakage</li></ul>                                 |
| Engine oil | <ul style="list-style-type: none"><li>• Check oil level in engine.</li><li>• If necessary, add recommended oil to specified level.</li><li>• Check vehicle for oil leakage.</li></ul> |

| ITEM                          | CHECKS   |
|-------------------------------|--|
| Disc brake<br>( If equipped ) | <ul style="list-style-type: none"><li>• Check operation.</li><li>• If soft or spongy, have dealer bleed hydraulic system.</li><li>• Check brake pads for wear. Replace if necessary.</li><li>• Check fluid level in reservoir. If necessary, add recommended brake fluid to specified level.</li><li>• Check hydraulic system for leakage.</li></ul> |
| Drum brake<br>( If equipped ) | <ul style="list-style-type: none"><li>• Check operation.</li><li>• Check brake shoes for wear. Replace if necessary.</li></ul>   |
| Throttle grip                 | <ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Check cable free play.</li><li>• If necessary, have a dealer adjust cable free play and lubricate cable and grip housing.</li></ul>  |
| Clutch lever                  | <ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Check cable free play.</li><li>• If necessary, have a dealer adjust cable free play and lubricate cable.</li></ul>   |

| ITEM  | CHECKS  |
|---|---|
| Wheels and tires                                | <ul style="list-style-type: none"><li>• Check for damage.</li><li>• Check tire condition and tread depth.</li><li>• Check air pressure.</li></ul> |
| Brake levers                                    | <ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li></ul>   |
| Brake pedal                                     | <ul style="list-style-type: none"><li>• Lubricate pivots if necessary.</li></ul>  |
| Sidestand,<br>Mainstand<br>( If equipped )      | <ul style="list-style-type: none"><li>• Lubricate pivots if necessary.</li></ul>  |
| Instruments,<br>lights, signals<br>and switches | <ul style="list-style-type: none"><li>• Check operation.</li></ul>  |

Read the Owner's Manual carefully to become familiar with all controls. If there is a control or function you do not understand, ask your dealer.

### **WARNING**

**Failure to familiarize yourself with the controls can lead to loss of control, which could cause an accident or injury.**

## OPERATION AND IMPORTANT RIDING POINTS

### STARTING THE ENGINE

1. Turn the key to "ON".
2. Put in neutral gear, or pull the clutch lever.
3. Start the engine by pushing the start switch.

### **WARNING**

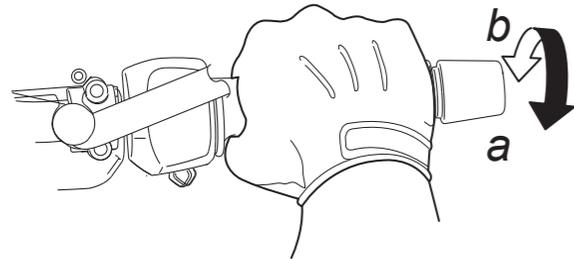
**Do not start the engine indoor with bad ventilation or without ventilation. Do not leave a starting vehicle when no one else is around.**

### **NOTICE**

**Do not run the engine in high speed when you do not drive the vehicle, or it will become overheating and damage its inner parts.**

## ACCELERATION AND DECELERATION

The speed can be adjusted by opening and closing the throttle. To increase the speed, turn the throttle grip in direction (a). To reduce the speed, turn the throttle grip in direction (b).



## BRAKING

1. Close the throttle completely.
2. Apply both front and rear brakes simultaneously for safety concern.

## WARNING

**It is dangerous only to use either the front brake or rear brake which may cause skid or lose control. Be careful and use brakes properly when you drive on wet road or curved road.**

## ENGINE BREAK-IN

There is never a more important period in the life of your engine than the period between 0 and 1000 km. For this reason, you should read the following material carefully. Since the engine is brand new, do not put an excessive load on it for the first 1000 km. The various parts in the engine wear and fit to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating. The engine should not be over revved and all the gears shall not be over 80% of red zone engine rpm; don't operate the throttle under a fully open position; change the gears in time to keep the engine rpm in reasonable

range. It is strongly suggested to use the vehicle very carefully during its running in period; also the rider has to be familiar to the performance.

## PARKING

1. The vehicle should be parked on firm and flat road.
2. Turn the power key to the position "  " to stop the engine.
3. Remove ignition key from the switch after locking for security reason.

## PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment, and lubrication will keep your vehicle in the safest and most efficient condition possible. Safety is an obligation of the

vehicle owner/operator. The most important points of vehicle inspection, adjustment, and lubrication are explained on the following pages. The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, depending on the weather, terrain, geographical location, and individual use, the maintenance intervals may need to be shortened.

## WARNING

**Failure to properly maintain the vehicle or performing maintenance activities incorrectly may increase your risk of injury or death during service or while using the vehicle. If you are not familiar with vehicle service, have a dealer perform service.**

## NOTICE

- The annual checks must be performed every year, except if a kilometer-based maintenance, is performed instead.
- The vehicle may have different accessory for different market and some parts may not exist for common chart.

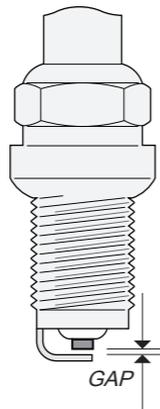
### CHECKING THE SPARK PLUG

The spark plug is an important engine component, which should be checked periodically, preferably by a dealer. Since heat and deposits will cause any spark plug to slowly erode, it should be removed and checked in accordance with the periodic maintenance. In addition, the condition of the spark plug can reveal the condition of the engine.

The porcelain insulator around the center electrode of the spark plug should be a medium-to-light tan (the ideal color when the vehicle is ridden normally). If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a dealer check the vehicle.

If the spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

Before installing a spark plug, the spark plug gap should be measured with thickness gauge and, if necessary, adjusted to specification.



Type  
*BOSCH A7RC*

Gap  
*0.6 - 0.7mm*

Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.

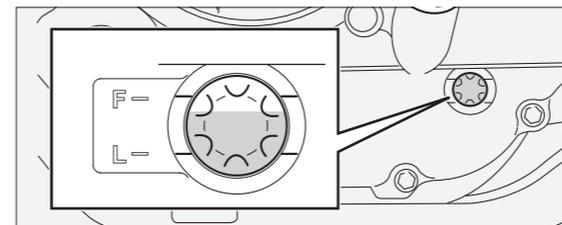
### ENGINE OIL

The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart.

### TO CHECK THE ENGINE OIL LEVEL

1. Start the engine, warm it up for several minutes, and then turn it off.

2. Wait a few minutes until the oil settles.
3. Hold the vehicle vertically. Inspect the engine oil level through the engine oil level lens on the right side on the engine.
4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to refill it to the correct level.



### NOTICE

The engine oil should be between the minimum and maximum level marks.

### TO CHANGE THE ENGINE OIL

1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.
3. Remove the engine oil filler cap and the engine oil drain bolt to drain the oil from the crankcase.
4. Install the washer and the engine oil drain bolt, and then tighten the drain bolt to the specified torque.
5. Refill with the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

Type  
*API SL, SAE10W-50, JASO MA2*

Without Oil Cooler Capacity  
*0.9L ± 0.05L*

Equipped Oil Cooler Capacity  
*1.1L ± 0.05L*

## IDLE SPEED

Good carburetion is the key of engine performance. Only use good quality fuel from gasoline station to prevent stain in the fuel from clogging the fuel pump strainer, or even the injectors.

## IDLING ADJUSTMENT

1. Keep the vehicle on flat surface.
2. Start the engine and warm up the engine for several minutes.
3. Clip the digital Tachometer to the spark plug cable.
4. If the idle speed is not in correct range, contact the nearest authorized dealers.

**Idle speed: 1,500±100r/min**

## VALVE CLEARANCE

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a dealer at the intervals specified in the periodic maintenance and lubrication chart. The engine is required to be in normal operating temperature for accurate idling adjustment.

**Valve clearance( Cold engine )**

**IN: 0.05 ~ 0.07mm EX: 0.05 ~ 0.07mm**

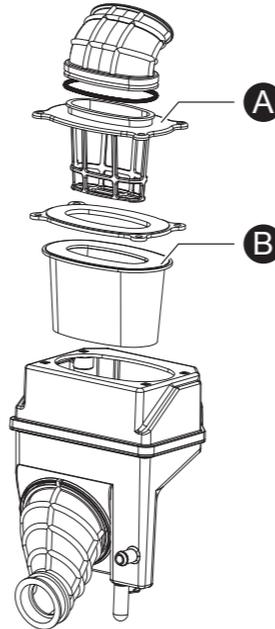
## AIR FILTER

The air filter element should be replaced and should be cleaned at the intervals specified in the periodic maintenance and lubrication chart.

## REPLACING THE AIR FILTER ELEMENT

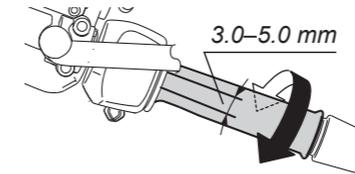
1. The air filter located under the seat, Remove the seat.
2. Park the vehicle on firm ground.
3. Remove the air filter case cover by removing the screws.
4. Pull the air filter element out.
5. Insert a new air filter element into the air filter case.
6. Install the air filter case cover by installing the screws.

A: Air Filter cover  
B: Air Filter



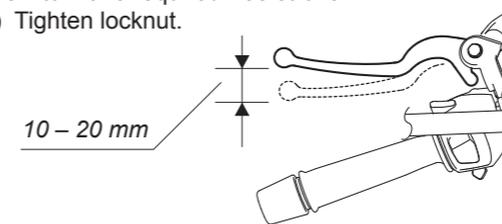
## CHECKING THE THROTTLE CABLE FREE PLAY

The throttle cable free play should measure 3.0–5.0 mm at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a dealer adjust it.



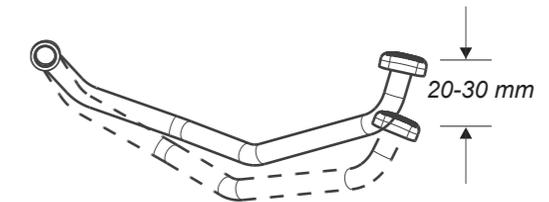
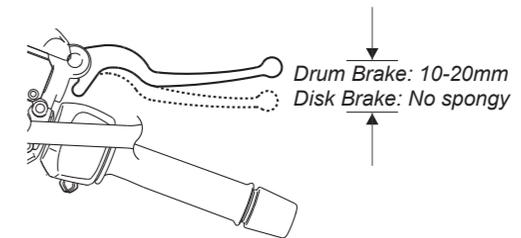
## CHECKING THE CLUTCH FREE PLAY

The free play of clutch is measured from the free status of the lever, Adjust in following methods, if anything abnormal.  
(1) Loose the locknut.  
(2) Screw in or out adjusting bolt and adjusting screw to make required free stroke.  
(3) Tighten locknut.



## CHECKING THE FRONT BRAKE LEVER AND REAR BRAKE PEDAL FREE PLAY

The brake lever free play should measure 10-20 mm as shown. The brake pedal free play should measure 20-30 mm as shown. Periodically check the brake lever free play and, if necessary, have a dealer check the brake system.



## COMBINED BRAKE SYSTEM (CBS)

This vehicle is equipped with a three-piston front caliper and a one-piston rear caliper. By pulling only the front brake lever, the system only activates the two outer pistons of the front caliper.

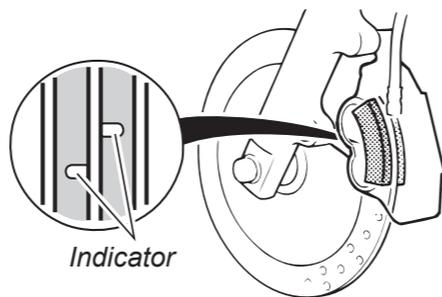
By applying the rear brake lever or pedal, the system activates first the piston of the rear caliper. When brake fluid pressure in rear brake cylinder builds up to 0.1Mpa, the CBS will enable the auxiliary route to transfer the pressure to the front caliper center piston. When reaching certain design value (varies from model to model), the pressure of center piston of front brake caliper will reach its safety upper limit and stop increasing. This design is to ensure when rider applies the rear brake, the front wheel will also be involved in contributing appropriate braking force, but will not lock the front wheel and cause danger to the riders.

For full braking effectiveness, use both the front and rear brake lever simultaneously, as all conventional braking system suggests. Please note that CBS cannot prevent the hazard of sudden or excessive the braking behaviors by the riders, which may result in losing control of the vehicle. Please always consider your speed with the road condition and brake properly.

## CHECKING THE BRAKE PADS (IF EQUIPPED)

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart.

Each brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that the wear indicator grooves were mostly disappeared, have a dealer replace the brake pads as a set.



## ⚠ WARNING

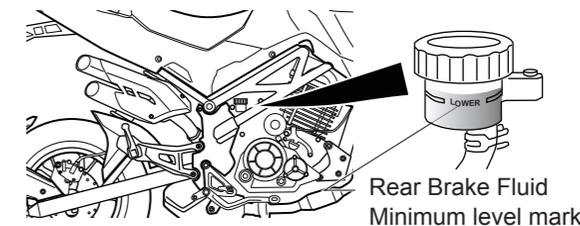
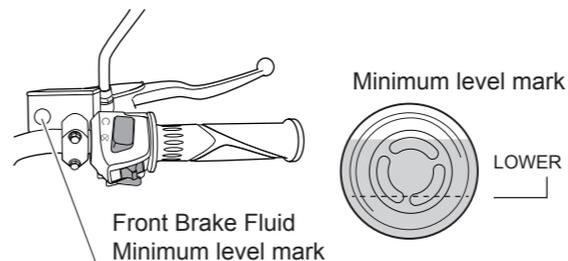
**In case of drinking the brake fluid by mistake or contacting with eye or skin, wash with a large amount of water, and seek medical advice immediately if in a serious condition.**

Don't forget to check the amount level in the brake fluid reservoir. Add appropriate brake fluid if necessary.

## BRAKE FLUID (IF EQUIPPED)

Brake system is tuned before delivery. Contact dealer if any problem.

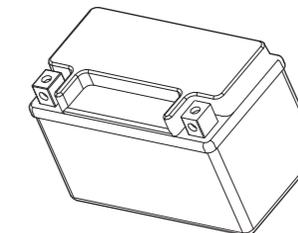
Recommended brake fluid  
DOT 4



## CHECKING THE BATTERY

Ask the dealer to add electrolyte for lead-acid battery. For MF battery, it's not required to inspect or add electrolyte.

Have a dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharge more quickly if the vehicle is equipped with optional electrical accessories.

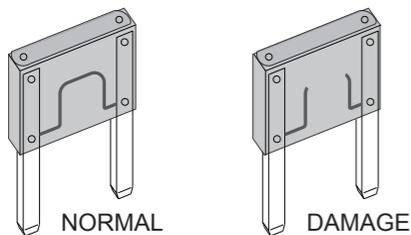


12V6Ah (YTX7A-BS)  
MF (Maintenance Free) Battery

## REPLACING THE FUSES AND BULBS

If a fuse or bulb for the individual circuits is blown, replace it as follows.

1. Turn the key to "OFF" and turn off the electrical circuit in question.
2. Remove the blown fuse or bulb, and then install a new fuse of the specified specification.



|                 |     |
|-----------------|-----|
| Main Fuse       | 20A |
| EFI System Fuse | 15A |

### **WARNING**

**Do not use a fuse or bulb of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire or problems.**

|                |        |
|----------------|--------|
| Meter Light    | 12V 2W |
| Horn           | 12V 3A |
| Headlight bulb | LED    |
| Turn light     | LED    |
| City light     | LED    |
| Taillight bulb | LED    |

## TIRE

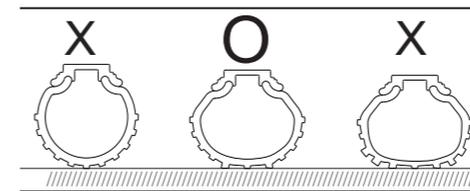
Inflation pressure and tire tread should be regularly checked. In order to ensure maximum safety and longer service life, inflation pressure requires more frequent routine check.

### Tire Pressure

Insufficient tire pressure will not only accelerate wearing, but also have bad impact on driving stability such as making turning difficult. However, too high pressure will reduce the contact area between tire and ground, thus causing slipping or even getting out of control. Tire pressure should be kept in the stan-

dard range. Adjust the tire pressure under a "cold" condition.

| TIRE INFORMATION                        |  |
|---|--|
| COLD TIRE PRESSURE                      |  |
| [FRONT] 190kpa(1.9kgf/cm <sup>2</sup> ) | [REAR] 210kpa(2.1kgf/cm <sup>2</sup> ) |



## STORAGE

### Short-term

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

### Long-term

Before storing your vehicle for several months:

1. Change engine oil.

2. Lubricate drive chain.
  3. Drain fuel in fuel tank .Install the fuel tank cover again.
  4. Detach the spark plug and add one teaspoon of (15~20cm<sup>3</sup>) clean engine oil to cylinder. and install the spark plug again.
  5. Remove the battery. Keep the battery in proper place which can avoid freezing and the direct sunlight. Charge the battery or examine the electrolyte level(if equipped with lead-acid battery).
  6. Clean and dry the vehicle. Wax the surface of the paint.
  7. Inflate tire to the required pressure. Put the vehicle on a block to make two tires off the ground.
  8. Cover the vehicle (no plastic or coating material) and keep it in the place consistent temperature and low humidity. Do not keep your vehicle under direct sunlight.
- Use the vehicle after storage
1. Take off the cover and clean the vehicle. Change engine oil if you keep your vehicle for more than four months.
  2. Examine the electrolyte level and charging as needed. Install the battery.
  3. Wash away the anti-rust agent in fuel tank, and add new petrol into fuel tank.

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## **SPECIFICATION**

### **Size and Weight**

Length ..... 1770mm  
Width ..... 760mm  
Height ..... 1025mm  
Wheelbase ..... 1215mm  
Dry Weight ..... 116kg

### **Engine**

Type ..... Single-cylinder, Four-stroke, Air-cooled  
Model ..... 154FMI-6A  
Bore × Stroke ..... Ø54 × 54.5mm  
Displacement ..... 124.8ml  
Ignition System Type ..... TLI  
Compression Ratio ..... 9.8:1  
Maximum Power ..... 8.6kW/9000r/min

Maximum Torque ..... 10N.m/7000r/min

### **Tire**

Front tire ..... 120/70-12  
Rear tire ..... 130/70-12

### **Fuel**

Fuel Tank (include reserve tank) ..... 7.2L  
Fuel Type ..... Regular unleaded gasoline only

### **Brake**

Front Brake Type ..... Disk Brake  
Rear Brake Type ..... Disk Brake