

# Mortch International Ltd

## Preface

Thank you very much for purchasing our scooters. And welcome to join the driver's line of MORTCH motorcycle.

With its extraordinary advantages of excellent quality, smart appearance and shape of legerity, our product will surely bring the utmost pleasure and convenience to your life.

This manual gives you information about the general structure, function, operation and maintenance methods of LANCY. In order to enable your beloved motorcycle to render a best performance and a longer life, please read this manual carefully, pay particular attention to the running-in part in it and follow all the operating instruction. It is of great importance to make your riding safer and more comfortable. Experienced staffs in our sale agency and the maintenance shop will also offer excellent service for you.

- Please take an initial examination of your motorcycle after the first 300km running in our designated maintenance shop, and take regular examination in every 1000km thereafter.
- All the direction, illustration and specification included in this manual are based on the latest product information. Please be noted that they may be different from the actual status of the motorcycle if there is new revision on its specification, and no further advice will be given.
- This motorcycle was designed and manufactured which complied with e-mark, the safety standard of Europe Union, the maximum speed is 45 km/h. Please do NOT change any parts without professional advice and use non-original parts in case of avoiding danger to driver and the broken of traffic laws.

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## Guidance

Please keep safety in your mind and observe the regulations of transportation while enjoying your riding. Pay attention to the following rules:

### 1. Pre-riding inspection

Please read the details in the relevant chapter for your safety

### 2. Helmet

Do remember to wear helmet while riding.

### 3. Being familiar with motorcycle operation

It is of great importance to ensure your safety getting familiar with motorcycle operation.

### 4. Speed limitation

Drive at proper speed in accordance with the road condition, the weather and your driving skill.

### 5. Position of the label

#### **WARNING**

It is dangerous to drive on the wet road.  
Do not make an abrupt turning while accelerating and keep proper distance from other vehicles.

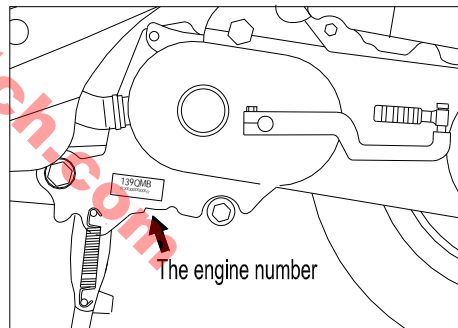
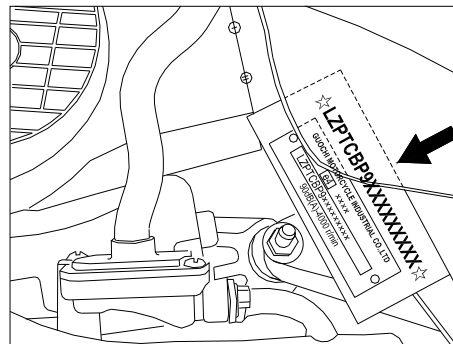
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## 6. Positions of the numbers

The frame number and the engine number are for the purpose of registering the motorcycle. When your motorcycle needs inspection, repair or other special service, the number will enable you to get good service from our sale agency. Please note down your number here:

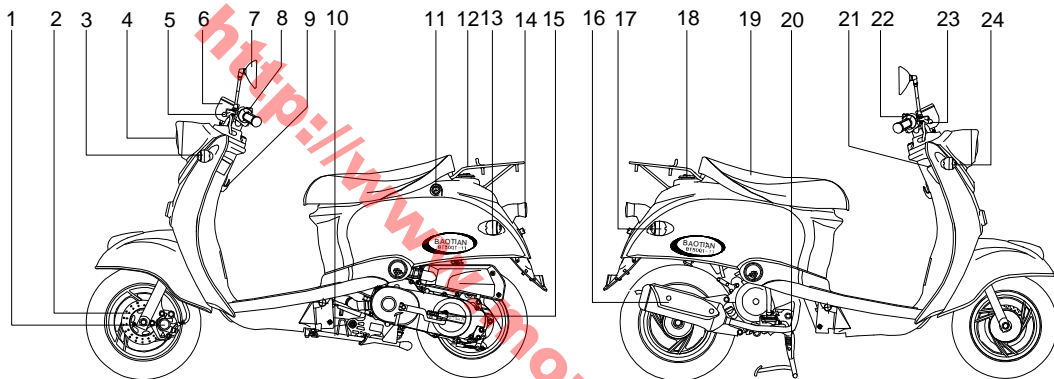
☐ The frame number: \_\_\_\_\_

☐ The engine number: \_\_\_\_\_



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## □ Names of parts



- (1) brake assy.
- (2) brake Disk
- (3) Left front turning light
- (4) Head light & front signal light
- (5) Rear brake lever
- (6) Meters
- (7) Rear-view mirrors
- (8) left switches

- (9) Helmet hook
- (10) Prop stand
- (11) Seat lock
- (12) hand-hold
- (13) Left rear turning light
- (14) Rear signal light & rear light
- (15) Starting pedal
- (16) Muffler

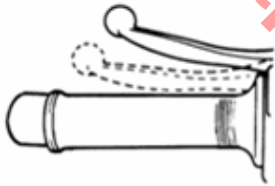
- (17) Right rear turning light
- (18) Fuel tank cap
- (19) Seat
- (20) Center stand
- (21) Ignition switch
- (22) light switches turning light
- (23) Front brake lever
- (24) Right front turning light

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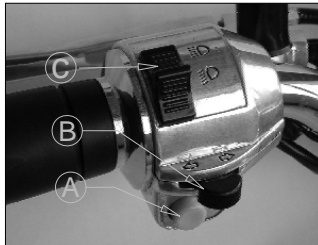
## □Controlling parts

### 1. Rear brake lever

Hold it tight and the rear brake functions



### 2. Switches on the left handle



A. Horn button

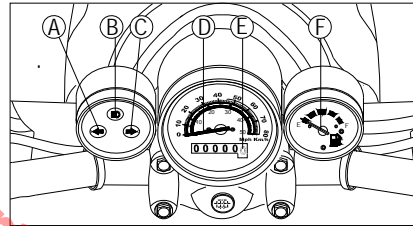
### B. Turning signal switch

← Left turning light

→ Right turning light

### C. Switch for high/low beam lights

### 3. Meters and indicating lights



A. Left turning lights indicator

B. High beam indicator

C. Right turning lights indicator

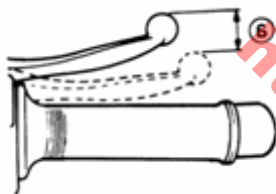
D. Speedometer indicates the speed in km/ hour

E. Odometer indicates the total distance the motor-cycle has run

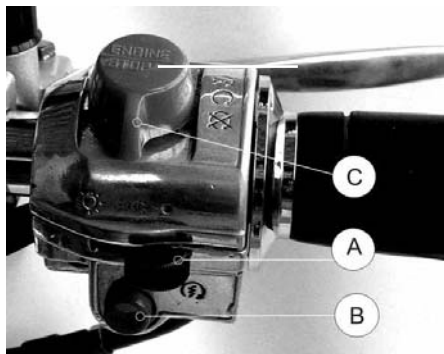
F. Fuel gauge.

## 4. Front brake lever

Press it tightly and the front brake functions.



## 5. Switches on the right handle



A. Head light switch

B. Ignition button

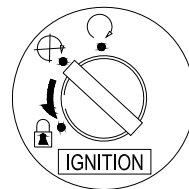
When the ignition switch is at ON position, hold the brake and push the button ,and then the engine works

C Choke switch

○ Engine can work

⊗ Engine can not work

## 6. Ignition switch



**OFF**

The whole circuit is cut. Engine and lights cannot be operated and the key can be withdrawn.

**ON**

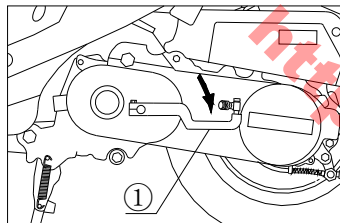
Engine cannot be started and all the lights can be operated. The key cannot be withdrawn.

**LOCK**

Turn the steering handle fully to the left, slightly press the key and turn it to the position lock . Then the key can be taken out.

## □ Starting lever

Starting lever is for kicking start of the engine.




## □ Fuel tank

Usage of the cap:

1. Insert the key.
2. Turn it clockwise and take off the cap.
3. Fix the notch and then press the cap on.



### Warning:

- ◆ Turn off the engine when refilling the tank.
- ◆ Turn off the cap slowly.
- ◆ Align the mark "△" on the cap to the , mark"  on the tank.
- ◆ Don't overfill the gasoline over the designated scale
- ◆ Do not add anything into the gasoline.

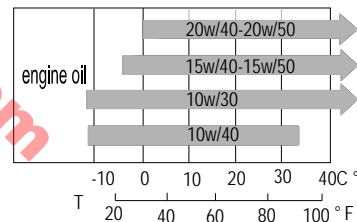
## □ Fuel and engine oil

### A. Gasoline

High-quality fuel is essential to the engine.  
Any sand in the fuel is absolutely prohibited.  
93# gasoline and unleaded gasoline is preferred.

### B. Engine oil

SAE-15w/40#





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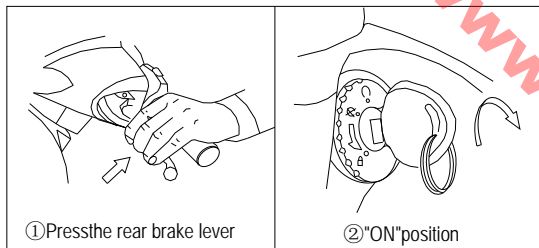
## Pre-riding inspection

Please check the following parts before you drive.

No.	Items	Inspection content
1	Steering bar	1.Flexibility    2.No gap or loosening appearance
2	Brake system	1.Interval between front brake and rear brake    2.No break on the cable 3.Flexible function
3	Tires	1.Proper pressure    2.No crack or cutting
4	Fuel	Sufficient fuel
5	Engine oil	Sufficient engine oil
6	Lights	Workable
7	Horn	Workable
8	Gear oil	With normal stock
9	Throttle	1. Proper gap    2.Flexible function    3.Proper control lever returning
10	All the bolts and nuts	No loosening appearance.

## □ Engine starting

1. Please check the volume of machine oil and gasoline before starting. The main stand should be stood up while starting the engine.
2. Turn the ignition switch to the "ON" position.

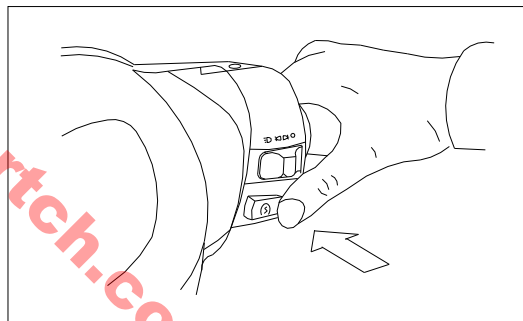


### Warning

- ◆ Press the rear brake lever in case that the motorcycle rushes forwards abruptly.

## 3. Engine Starting

Push the starting button and then the engine starts.



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## Warning :

- ◆ 5 seconds is the maximum limit for each starting and 10 seconds is the minimum interval.
- ◆ Stop pressing the starting button immediately after the engine starts.
- ◆ Do not press the starting button while the engine is running, or the start motor will be damaged.
- ◆ When using electric starting, please press the rear brake lever in advance to get through the circuit and start the motor.
- ◆ When using electric starting, don't operate the starting motor continually, or it may cause damage to the starting motor and the battery.
- ◆ Warm up the engine after cold starting, (about 3

## Warning

- ◆ After the engine starts, the starting grip should be turned to its original position. Otherwise, it will affect the driver's safety.
- ◆ Please don't start the engine in malventilated places because the wasted gas with CO is harmful to human beings

## Running in

To maintain your motorcycle running in a good condition, please follow the below rules during the new running-in period.

Distance(km)	Speed limitation (km/h)
0-200	25
200-1000	35
1000-----	≤45

## 4. Kick Starting

Press the brake handle, tread the starting grip heavily and then the engine will start.

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## □ Regular maintenance

Item	Interval	Km	300	1000	3000	6000	12000
	Month	New motor					
Battery		I	I	I	I	I	I
Nuts on tank cap and exhausting tub*		I	F	F	f	F	F
Cylinder cap, cylinder and muffler*		--	C	C	C	C	C
Carburetor		I	I	--	--	I	I
Air cleaner		Clean it between every 2000km					
Spark plug		I	--	I			
Fuel line		Replace every four years					
Clutch *		--	--	--	I	I	I
V-strap		--	--	--	I	I	I
Engine oil		R	R	Replace every 3000km			
Brake *		I	I	I	I	I	I
Front fork and steering *		I	I	--	I	I	I
Rear suspension		I	I	--	I	I	I
Tires		I	I	I	I	I	I
Fastening nuts and bolts		I	F	--	F	F	F
Gear oil		R	Replace every 5000km / 5Month				
Start motor		--	--	--	--	I	I

**NOTE:** I=Inspect and clean, adjust, replace or lubricate as necessary: C=Clear, R=Replace, F=fastened

Service more frequently when riding in dusty areas.

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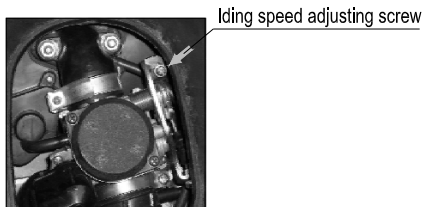
## 1. Battery

12V/7Ah battery

- ① When the voltage is less than 11.5V, please use kicking start instead of electric starting
- ② Place the ignition switch to **OFF** position before battery replacement.
- ③ Electrode identification: "+"—red line, "-"—black line.
- ④ Change a new battery every 4 years.

## 2. Carburetor and idle speed adjustment

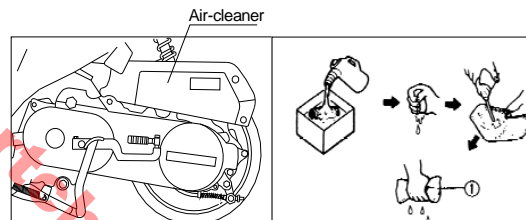
- ① Keep the engine warmed up for 2-3 minutes.
- ② Adjust the idling speed screw to set the engine at speed if about 1800 rpm. The idle speed adjusting screw.



### Warning:

- ◆ It has been fully adjusted to the highest position when manufactured.

## 3. Air cleaner

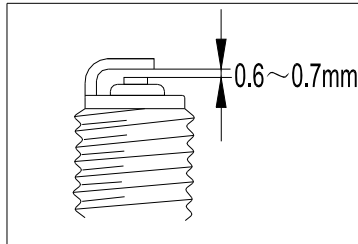


- ① Pour the non-flammable detergent into a basin and immerse the core of air cleaner into the detergent for cleaning.

- ② Press the core to squeeze the detergent out of it by the palms. Never twist it in case that it is broken.
- ③ Immerse the core into engine oil.
- ④ Squeeze the excessive oil out but keep it lightly oil immersed.

## 4. Spark plug

- ◆ Clean the carbon deposit on the spark plug with a piece of hard wire or steel needle.
- ◆ Adjust the gap to 0.6-0.7mm with a thickness gauge.
- ◆ Use (NGK) C7HSA when replacement is needed.



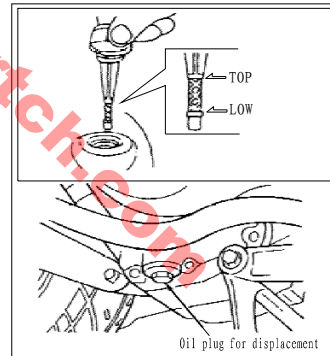
## 5. Fuel

Refill the recommended unleaded gasoline with an octane number of 93# or higher when the indicating needle points to the red area in the fuel gauge.

**NOTE:** *Unleaded gasoline will extend spark plug and catalytic converter life.*

## 6. Engine oil

Replace the engine oil with the engine warmed up.



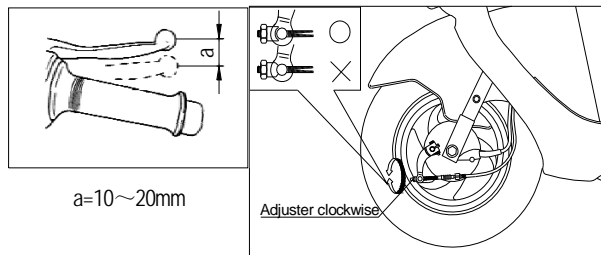
- ① Remove the oil dipstick.
- ② Remove the oil plug to drain the used oil.
- ③ Reinstall the oil plug, paying attention to the tightness.
- ④ Refill 0.8 L recommended flesh oil
- ⑤ Fasten all the nuts and screws.

## 7.Brake system

Normal free stroke of the brake lever is about 10-20mm.

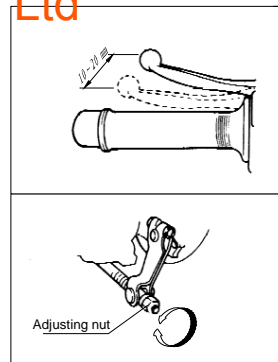
- ①The front brake

Turn the adjusting nut to get a proper stroke



- ②The rear brake

Turn the adjusting nut to get a proper stroke.

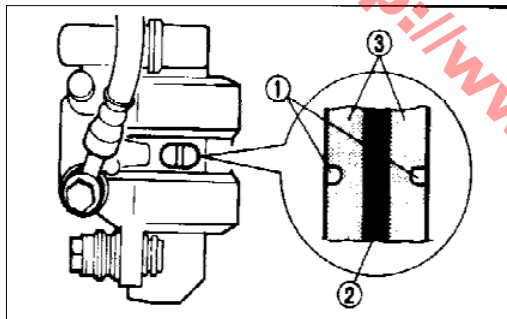


### Warning:

- ◆ FREE STROKE means the distance between the positions from free status to the beginning performance of the brake.
- ◆ Pay attention to the sensitivity of the brake.

## ☆ Front brake

◆ Grip the brake handle and check the wear & tear indicator . If the indicator nearly touched the brake disk, please ask the appointed maintainer to change the brake shoes



① wear & tear indicator    ② Brake disk    ③ Brake shoes

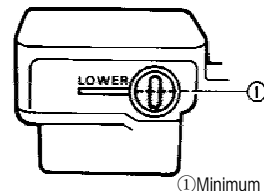
◆ Check the following items of brake system before driving the motorcycle:

- ① Check if there is any leakage ;
- ② Check if there is any leakage or crack on the oil pressed hose;

- ③ The brake handlebar should be kept with a certain free swing distance from 10~20mm, and kept a certain re- grip power;
- ④ Abrasion situation of the brake shoes.

## ◆ Brake oil level

① It has been filled the special brake oil before the motorcycle leaves the factory. User should fill or change the qualified brake oil (such as No.DOT3 & DOT4 brake oil) from the appointed maintenance station .Never change or mix other oil, otherwise it would damage the brake system.



① Minimum level

② If the brake oil is insufficient, it might be possible for the air to come into the brake system, and result in the failure of the system

### Warning

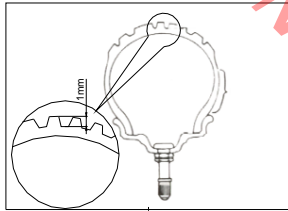
Brake oil is corrosive material .It would damage and corrupt the painting of the part .It should be cleanout if the oil splash on the part .If the oil sprayed on the skin or eyes ,it should be cleaning quickly with a lot of water.



## 8. Tires

Insufficient tire pressure hastens wear of them and affects the riding stability. Please check the tire pressure and tread depth when applying regular maintenance.

- ① Tire pressure: front 225 kpa , rear 225 kpa.
- ② Tread depth: It is suggested to replace a new tire when the tread depth is less than 1 mm.



### Warning:

- ◆ The standard tire is 3.0-10-42J for rear and 3.5-10-51J for front . The use of tire other than standard may cause trouble.
- ◆ Tire inflation pressures and the general tire condition are extremely important to the proper performance and safety of the vehicle.

## 9. Starting motor

Check the fastening bolts and the carbon brush, and replace them if necessary.

## 10. Fuse

Fuse is linked with the outer line of the battery. When a light or circuit fails suddenly, check the fuse first.

### Warning:

- ◆ The fuse cannot be replaced by any iron or aluminum wire.

## 11. Gear oil

Please use the recommended gear oil:

SAE10W-40

Total capacity :110ml

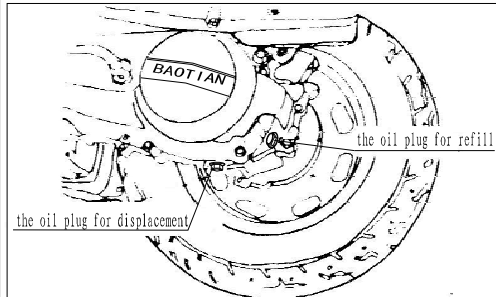
Replacing capacity :100ml

After supplement, please make sure you have locked the oil plug and check screw

## How to change gear oil

- Stand the scooter
- Take off the oil plug on the gear oil sprue
- Take off the oil plug for displacement, let off all the oil
- Tighten the oil plug for displacement
- Refill the oil from gear oil sprue, tighten the oil plug

After refilling



## Tools

A full set of tools is offered for your daily use.

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## Technical Parameters

Items		Specifications
Size	Length Width Height Wheel base Min. distance above ground	1680mm 680mm 1070mm 1210mm 80mm
Weight	Unloaded weight Loaded weight Mass weight	77kg 75kg 157kg
Capacity	Max. Speed Min. Speed Slope Turning Conner Dia. Of turning Conner	45km/h (e-mark) or 60 km/h $\leq 1.8\text{km/h}$ $\geq 6^\circ$ $\geq 45^\circ$ $\leq 3200\text{mm}$
Circuit system	Spark plug Battery Fuse Headlight Tuning lights Brake light Indicating lights	(NGK)C7HSA 12V/7AH 10A 12V 35W 12V 10W 12V 21W/8W 12V 5W

# Regular maintenance **Mortch International Ltd**

Volume of the fuel tank		6.2L
Volume of the engine oil tank		1L
Engine	Model	BT139QMB
	Type	1 cylinder, cooled by forced air,
	Cylinder	4 stroke
	Bore and stroke	1
	Cylinder volume	39*41.5mm
	Compression ratio	49.5ml
	Max. power	10.5:1
	Max. torque	2.2 kW /7500(r/min)
	Carburetor	2.9 N • M /7000(r/min)
	Air cleaner	PZ18J
	Ignition type	Polyurethane plastic core
	Starting mode	CDI
	Cooling mode	Electric/kicking start
	Lubrication	Forced air-cooled
Frame		Pressure/splash
Frame		Steel tube frame
Suspension	Front absorber	Rock-arm variable-pitch spring & hydraulic damping shock absorber
	Rear cushion	Single damping shock absorber
Brake system		Variable-pitch spring & hydraulic damping shock absorber
Tires		Expansion braking shoe
Tires		3.0-10-42J for rear and 3.5-10-51J for front

## Technical Parameters

