

**USER'S MANUAL**



**MEITIAN**



MT50QT-16

**SHANGHAI MEITIAN MOTORCYCLE CO.,LTD**

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## ***SAFETY DRIVING RULES***

1. Please check your motorcycle before driving to avoid accidents and damage of machine.

2. The driver must pass the examination of management department for traffic. Don't lend your motorcycle to a person who is not qualified for riding.

3. In order to avoid accidents, driver must be caught other's eyes, so please do as follows:

(1) Wear easily "showing" clothes during driving.

(2) Don't approach to other car too closely.

4. Abide by traffic rules strict.

5. Most accident are emerge because of over-speed of the road.

6. When turning or changing way, please turn on the trans-direction lamp in order to cause other's attention.

7. When riding in cross way, parking square entrance or highway, please pay attention to your riding.

8. When riding in rainy days, please remember the braking distance is double of that of sunny days.

9. Hold handles with both hands, put your feet on the feet step. Passenger should hold the driver or the cycle while having his feet on passenger's footsteps.

## ***WEARING***

1. Wear helmet, and tie safety belt.

2. Wear easily "showing" clothes during driving.

3. Tie well wristband to avoid it to be clasped by brake handlebar.

4. for your safety, please wear level shoes.

## ***LOAD***

When loading, the handlebar is going to give you abnormal feeling, so please pay attention to:

1. The max loading is 1.5kg for front luggage.

2. The max loading is 10kg for storage box.

3. For your safety, over loading is forbidden.

Frame number locates on girder pipe in front of frame. Product brand loocates on the left of middle part of frame. Engine number locates on the left of crankcase. Please record those numbers:

Frame number:                      engine number:

## ***PARTS' NAME***





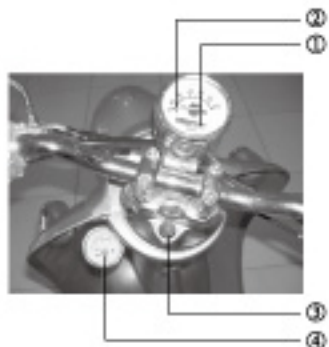
## **Meter**

### **①. odometer**

*It can record the whole distant of having driven.*

### **②. Speed meter**

*Show the speed Km/h.*



### **③. Turning signal indicator**

*When you turn the signal light, the indicator will flash at the same time.*

### **④. fuel gauge**

*it displays remainder value in fuel tank. (when main switch is on "on" position, it will display. when main switch is on " off" position, it doesn't work). When the gauge point near "E" which explains the remainder is 0.8 liter, please fill with 90# unleadedgasoline.*


## EACH PART'S OPERATION

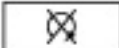
### KEYS


There are two sets of keys, one for usual using, and another for using in support, please keep it well.

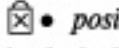

#### ①. Main switch



 ...get power, and start engine, moreover the key can't be taken out at this time.

 ...cut off power, and the engine can't start, as well the key can't be taken out.

 ...try to turn handle to the left, press key down and turn it on


 • position, take out the key, then handle lock has be locked. When you want to open it, insert key and turn it on "  " position, then the lock will open.

#### **Pay attention to:**

To avoid being stolen, be sure to lock handle and take out key when parking. For safety you can turn handle to confirm it.

No parking in busy traffic.

#### **Warning:**

During riding, it is forbidden to turn key on "  " position, otherwise it will lose control, which may cause accident.

## ②. start button


Grasp front braking handlebar or rear braking handle bar and press start button, then the engine is going to start.


### **Pay attention to:**


After starting, right finger leaves the button. Don't press the button during rotating.

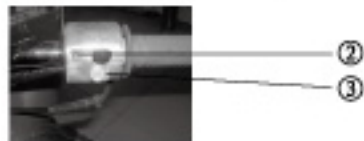
it can't spend more than 3 seconds per starting, the interval is 10 seconds or so. After trying five times, it still can't start, and then you should solve some problems.

## ③. light switch

 ...Headlight, dipped headlight, meter light and taillight are all off.

 ...Dipped headlight, meter light and taillight are all on


 ...Headlight, meter light and taillight are all on.

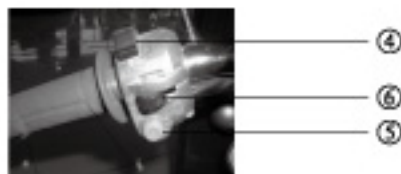


## ④. headlight switch


### **Overtaking signal switch**

 ...On this position the high light is on.

 ...When you ride in city or another driver ride close to you, turn on this low light to avoid affecting other's eyes.



## ⑤. horn button

Turn main switch on "  " position, press horn button, and then the horn is going to sound.



### ⑥. *turning light switch*

*turn the switch on "←", and then the left turning light lights. Turn the switch on "→" position, and then the right turning light lights. Press turning light switch to shut off turning light.*

### **Warning:**

*When turning or changing road line, please turn on the trans-direction lamp in order to cause other's attention, after which you should turn off the switch in time.*

### ⑦. *start shaft*

*When using kick-start, step on the start shaft, and then engine starts.*



### **Be careful of:**

*After engine starts, step back the kick-starter, otherwise it may cause accident.*

### ⑧. *box for storage*

*The box is located under seat. Open seat lock and lift seat, and then you can store goods. Put down seat, then the lock is locked.*

*When hanging helmet, you should make its jaw down.*

***Pay attention to:***

*The loading in the box is less than 10kgs.*

*Each time you need to see whether seat lock is locked.*

*During riding, temperature around engine is very hot, so don't place low heat-resistant goods, food and combustible in the box.*

*Don't store precious goods in the box.*

*When washing your motorcycle, some water may flow into the box, here please pay attention to the inner goods.*

**⑨. storage battery**



*(1) Storage battery is located in the right middle of footrest.*

*(2) The model is 12v-7AH.*

*(3) when you want to take out the storage battery, you can disassemble under cover.*

## **CHECK BEFORE RIDING**

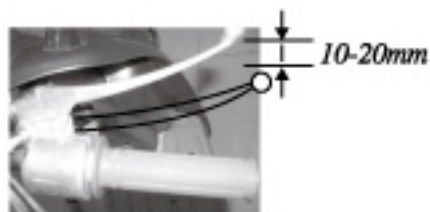
*Before riding you must inspect these following items to ensure your safety:*

### **1. Front and rear brake**

*Check its operation, adjust free moving clearance if necessary,*

*Free moving clearance means capable moving distance before brake lever plays its braking effect.*

*After adjust the brake's free inovement, grasp and loosen the handle several times to inspect the free turning of wheels, or ride on the dry road, slow down the speed to inspect whether front and rear brake is normal. Do it frequently to ensure excellent braking effect.*



### **WARNING:**

*After adjusting brake, the concave part need to face swinging arm pin to avoid accident.*

*When brake pad kit is abraded to its limit mark, you need to replace pad kit in time.*

### **2. Gasoline**

*If necessary, fill tank with gasoline and check whether there is any gasoline leaked out. Please use the gasoline that is unleaded or its octane number is 90# or more.*

### **Warning:**

*You must shut off engine to supplement gasoline. Don't supplement too much as a result of over level, otherwise gasoline is going to leak out.*

### 3. Engine oil and its replacement

Remember to inspect the volume of engine oil. If necessary, supplement and replace engine oil as specified.

(1) stand up scooter, take out engine oil gauge and clean it in cold situation.

(2) insert the gauge again(no turning).

(3) take out gauge to see whether the volume is close to upper limit position, if not, you need to replenish some engine oil to upper limit position.

(4) when mileage is 300kms in the first break-in, you need to readjust the clearance of valve as its specified requirement. and replace the lubricating oil it is necessary, you must replenish engine oil special for MEITIAN Motorcycle or ther kind of oil specified in this manual.

(5) the capacity of engine oil is 0.9L. For replacement it is 0.75L.

(6) don't exceed the upper position of gauge.

(7) when riding on multi-dusty, scraggly or cold road, you need to replenish it ahead of time for engine oil is easier to get bad.

Please use SF grade or more high-grade engine oil. The model is 15W-40 SF, which keep your engine with the following best capability: little remainder carbon, least preignition, and longest life for spark plug and best lubrication.

#### Notice:

During riding, inspect oil volume, if necessary replenish it. Don't do it on slope or with your motorcycle inclining, otherwise the result may be incorrect. When you park scooter to check, you need to avoid injuring.



Normal Range



Oil intake

#### **4. Lights and horn**

*Check headlight, taillight, stopping light, turning signal light, indication light and horn.*

#### **5. Tire**

*Check the status and pressure, estimate the pressure of tire in your eyes.*



*Check whether there is metallic piece, macadam and so on or not in the channel of tire, if there is, clean out them, and then ride on.*

*When the chap or channel of tire is abraded to its limited degree, please replace it in time.*

#### **6. Check other parts to judge whether**

*they are smooth, the position of turning can be shut off completely or not, inspect if some fixing parts is loosen or there is some mutual interference or abnormal situation.*

#### **Periodical inspection**

*It is necessary to do a periodical inspection and maintenance, which will provide you a pleasant and safe riding. Our company's service situation and sales department can provide you this work in time when you need. For the time and items of checking, you can see maintenance schedule.*

#### **Warning:**

*When the mileage reaches 100kms, you must do a checking and maintenance according with this manual.*

*Replacement and replenishment of gear oil:*

*Park scooter stably, after 2-3 minutes rotating, open the screw for filling oil and inspect gear oil.*

*If the volume of oil is not enough, fill in some proper gear oil.*

*Replace it per 1000kms or per half year.*

*It is recommended to use special grade oil, the model 15W-40 SF.*

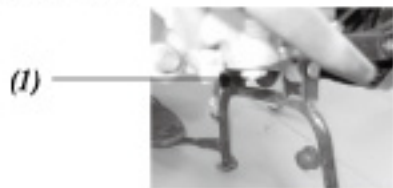
*Inspect whether there is any oil leaking out in gear transmission box.*

*It is necessary to fill gear oil along with adjusting screw hole.*

*Filling too much or little is going to affect engine's operation.*

*It is necessary to replace it frequently when you often ride on bad road.*

*(1) screw for discharging oil*



### ***Inspection for air cleaner and its cleaning***

*Too much dust on the air cleaner is going to decrease engine power and increase its exhaustion. It is necessary to clean air cleaner per 4000kms, if riding on multi-dusty road, you need to clean it more times.*

*(1) Disassemble 2 fixing bolts and 1 clip on air cleaner, and then take out the air cleaner.*

*(2) Disassemble the tapping screw on top of air cleaner, and then take down its cover.*

(3) Take its filter, clean it with non-flammable or high burning point impregnant, and then dry it.

(4) Assemble it as the reverse of disassembling.

**Notice:**

Dust may go into cylinder for improper assembling, which result in abrasion, degrade its power and affect its lifespan.

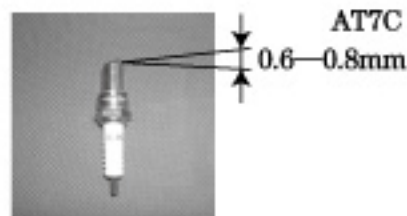
When washing scooter, don't get it wet, otherwise may affect its starting.

**Inspection for spark plug**

Spark plug

At the beginning of 1000kms and the after PER 4000kms, with little metallic brush or spark plug cleaner to clean remainder carbon adhered on the plug, with measuring piece of its clearance deepness to adjust the clearance of its electrode, keep its deepness between 0.6mm to 0.8mm.

Replace spark plug per 8000kms.



**Be careful to:**

The standard spark plug supplied for this scooter is chosen carefully, which can be comfortable for most of situation, if you choose improper spark, it may damage your engine seriously.



***Its model:***

*AT7C*

***Be careful to:***

*Don't screw spark plug too tight or make it interleaving to avoid damaging cylinder's screw thread. During disassembling spark plug, you need to prevent some impurity from going into engine through its hole.*

***Inspection for battery***

*Battery is located in the right middle of pedal, disassemble the little cover, and then you can inspect it. The volume of electrolyte in storage battery needs to be between upper level and lower level, if it is below lower level, add some electrolyte according to the upper requirement.*

***Notice:***

*Be sure that exhausting pipe is unblocked.*

*To refill use only distilled water. Tap water contains minerals which are harmful to a battery and shorten its lifespan.*

*Batteries produce explosive gases. Keep sparks, flame, etc. away.*

*It contains sulfuric acid. Serious burins can result from contact with skin, eyes or clothing.*

***Inspection for lights and flashlights***

*Check whether headlight, stoplight, taillight and main switch works well or not.*

*Check the left and right light.*

*Check the indication of oil level.*

*Each part's lubrication*

*Check whether each part is lubricated fully in your eyes.*



### **Starting engine**

- (1) before starting, check gaso and engine oil.*
- (2) stand up main stand to make rear wheel leaving from ground.*
- (3) insert key and turn it on " Ⓞ " position.*
- (4) electric starter or kick starter, you need to grasp front or rear braking handlebar when using kick starter.*
- (5) in cool situation or special in cold winter, turn main switch on " ⓧ " position, kick it for about five times, fill a little gasoline, connect with circuit, and play up throttle slowly, rotate with warm-up or 1-3 minutes, and then ride.*

*(6) after starting with warm-up, turn on main switch, start with electric starter or kick starter(in the situation of braking). For this scooter is designed with the most advanced electromagnetism-starting valve, it can be started in normal. After starting, lay down main stand, release braking, and turn throttle handlebar to go on riding.*

### **How to drive**

*(1) push scooter to lay down main stand.*

*Stride from the left, sit right and touch ground by left foot to avoid slipping.*

### **Caution:**

*Before riding, keep rear brake with the situation of braking.*

*(2) loose rear braking pedal*

*Warning: when loosening rear-braking pedal, never play up throttle. Otherwise the scooter may run out and result in accident.*

*(3) turn throttle handlebar slowly, it is going to ride.*

### **Warning:**

*Never turn throttle handlebar too hurried, otherwise scooter may rush out suddenly.*

*(4) correct driving*

*Before riding, turn on trans-direction light, and then ride safely.*

*(5) adjust speed*

**turn to inner** ...Play up throttle slowly, speed gets faster and faster. During starting or riding on slope, turn back throttle handlebar, then its power gets bigger.

**turn back** ...Speed gets slower and slower, do it rapidly.

(6) *driving at proper speed may prolong its lifespan. Drive at less 60kms/h as following:*

*avoid to brake suddenly.*

*replace engine oil for gear box in warm situation after break-in time.*

(7) *how to use front and rear brake*

*shut off throttle, at the same time use front and rear brake.*

*do it in the beginning, then grasp brake handlebar tightly to get its excellent braking.*

**Warning:**

*Be careful to brake single wheel, otherwise it may slip and fall.*

(8) *never brake or change direction suddenly sudden braking and trans-direction often horizontalslip, which is extremely dangerous.*

(9) *be careful to ride in rain*

*it is wet on rainy day, when the distance of braking is going to be longer, you need to slow down and advance to brake.*

*for downgrade, turn back throttle handlebar to turnoff position. Moreover, brake discontinuously and ride slowly.*

(10) *how to shut down*

*1. near to the place of parking.*

*first of all turn on trans-direction light, observe rear mirror and pay attention to vehicles running back and forth, ride slowly.*

*shut off throttle, use front brake or rear brake, then stopping light works, which gives rear driver attention.*

## 2. shut down

turn off trans-direction light, turn main switch on "X".

### **Warning:**

Don't turn off main switch during riding, otherwise electric circuit is cut off, which results in hurry stopping, even traffic accident.

stand up main stand on flat road, never block traffic. If standing on accidented road, scooter may slip and fall.

grasp handlebar by the left hand and hold the edge of saddle by the left hand, step on main stand, and then pull it by the right hand.

after parking, be sure to lock handle lock and take it out.

## (12) Repairing

If engine can't be started, inspect the following items:

whether fuel in fuel tank is full or not.

step on starter for several times to judge whether there is any fuel gone into carburetor, inspect ignition system.

disassemble spark plug, adhere to engine, and then start engine to judge whether there is spark or not, if not, ask for sales department to repair it.

### **Warning:**

Don't keep spark plug near to spark plug hole on cylinder head, otherwise it may result in fire for steam of gasoline in cylinder ignites.

## **How to store**

### **Store**

If you needn't use your scooter for a long time, you must do some measures to decrease the falling of quality for long time storing. In addition, before storing your scooter, you need to do some necessary repairing. Otherwise you may forget to repair it when you want to use the scooter.

1. Replace engine oil
2. Exhaust oil in fuel tank and carburetor.

### **NOTICE:**

If the time is over one month, in order to ensure normal performance, it is very important to exhaust the oil in carburetor.


### **Warning:**

Gasoline is flammable, and in certain condition it may explode. Never smoke or ignite beside the gasoline exhausted.

3. Disassemble spark plug and fill cylinder with a teaspoon (15-20cm<sup>3</sup>) of clean engine oil. Step on starter several times to scatter engine oil, and then reassemble spark plug.

4. Disassemble battery. Store it in some place where the battery can be avoid to be frozen and bask.

### **Notice:**

When starting engine, turn main switch on "  " position and insert spark plug into the cap of cable, which avoid damaging ignition system.

Inspect the level of electrolyte each month and charge it slowly.

5. Wash scooter and dry it. Spray cere on all painting pars' surface.

6. Inflate tire to supposed pressure. place scooter on like bricks to keep front and rear wheels from ground.

7. Cover scooter (don't use plastic or painting material), store in the place where air is neither warm nor wet and the difference in temperature is very small. Don't Keep scooter insolated.

### **The end of storing**

1. Uncover and wash scooter. If you have store it for 4 or more months, you have to replace engine oil.

2. Inspect the level of electrolyte. If necessary, charge it. At last, assemble battery.

3. Fill fuel tank with new gasoline.

4. Inspect each parts. Try to ride some distance at low speed in safe road.

**Technical parameter****MT50QT-16**

<i>Description</i>	<i>Technical Data</i>
<i>Dry Weight</i>	75 kg
<i>Wheel Base</i>	1160 mm
<i>Exterior Size</i>	1615x630x1048 mm
<i>Maximum Speed</i>	50 km/h
<i>Max Payload Mass</i>	100 kg
<i>Fuel Capacity</i>	5.30L
<i>Brake Type</i>	F/R: Drum
<i>Engine Type</i>	4 stroke, Single, air-forced cool
<i>Nominal Displacement</i>	50 ml
<i>Maximum Power</i>	2.2kw/7500r/min
<i>Starting System</i>	Electric / Kick
<i>Fr.Tyre Size/Air Pressure</i>	F: 3.00-10-4PR/150KPa
<i>Rr.Tyre Size/Air Pressure</i>	R: 3.00-10-4PR/175KPa
<i>Battery Size</i>	12V/7AH
<i>Ignition Mode</i>	CDI
<i>Economic Fuel Consumption</i>	403g/kw · h
<i>Min Idle Speed</i>	1600 r/min
<i>Spark Plug Type</i>	AT7C
<i>Lubricateing Oil Type</i>	15W/40SF
<i>Fuel Type</i>	RQ90

## Maintenance schedule

Items	Period	Reading (note 1)			
		1000km	4000km	8000km	4000km
Fuel pipe			I	I	I
Throttle operation			I	I	I
Air cleaner	Note (2)	C	C	R	C
Spark plug			I	R	I
Engine oil			R		R per 5000km
Carburetor idle		I	I	I	I
*Abrasion of brake shoe			I	I	I
Brake system		I	I	I	I
*Belt			I per 8000km and R per 24000km		
**Head light cover			I	I	I
*Abrasion of clutch shoe				I	
*Absorber			I	I	I
**Nut, bolt and fixing parts	Note (3)	I		I	I
**Wheel and tire	Note (3)		I	I	I
**Turning bearing		I			

I: inspect and clean, lubricate or replace if necessary.

C: clean Rreplace

\* Inspection and repair of items with \* should be done by the sale department with qualified tools prepared by owner. If owner does all this work, he or she must abide by the manual.

\*\* For safety, inspection and maintenance work of items with \*\* should be done by our sales departments or service stations.

Notice:

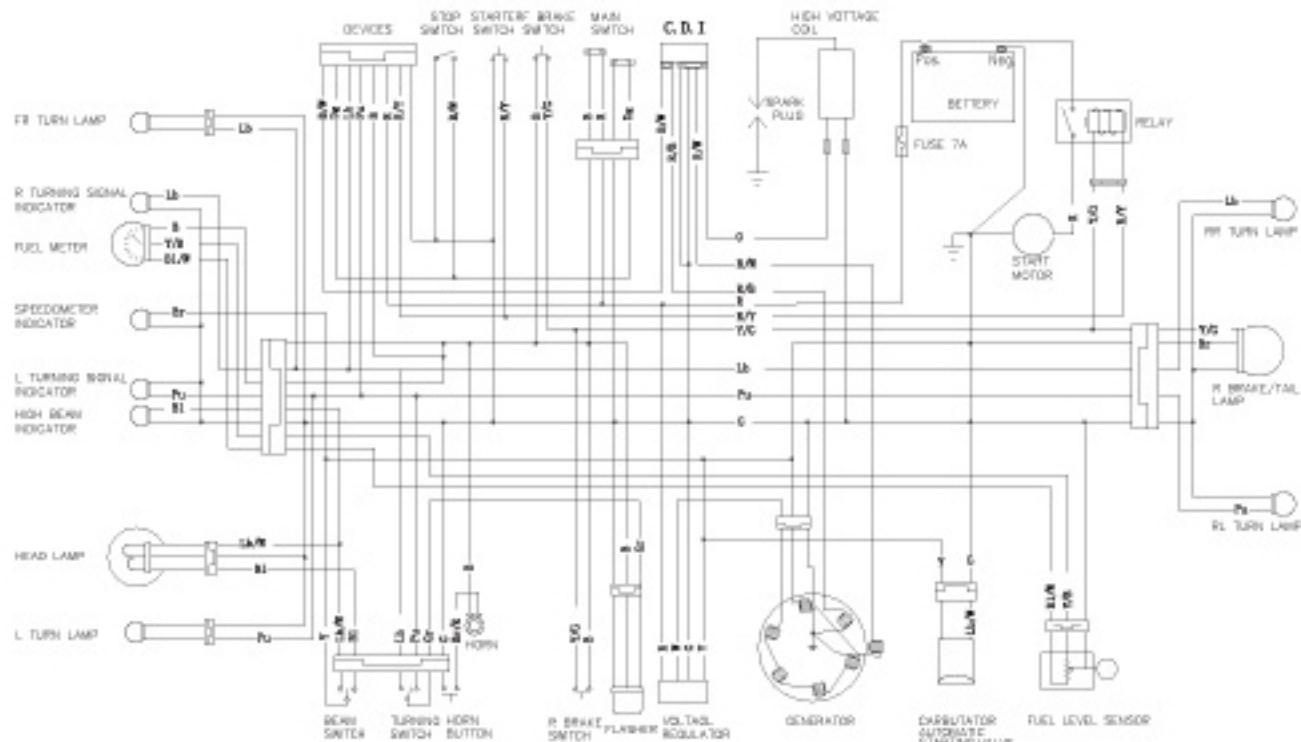
1. If reading is too big, do maintenance according to the upper specification.

2. More frequent inspection should be done when often running in dusty or wet road.

3. Better and more frequent inspection and maintenance should be done when often running on accidented road.



## MT50QT-16 circuit diagram



Color	Black	Yellow	Blue	Green	Red	White	Light Blue	Grey	Brown	Purple	Orange	Dark Green
Code	B	Y	Bl	G	R	W	Lb	Gr	Br	Pu	O	Dg





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