

ITALMOTO



Owner's Manual

Tiquattro 125

Preface

Thank you for purchasing our Tiquattro 125 electronic fuel injection motorcycle, it will offer you a pleasant and safe driving.

Driving a motorcycle is one of the most exciting sport. For safety reason, you should read this owner's manual carefully and following these instructions before you drive.

This manual introduces the regular maintenance and service, please follow the following instructions, it will help you to keep your motorcycle in good condition and make it last longer. Our company never stops improving the manufacture quality and the vehicle's performances in order to fulfil our customers' expectations.

Important Notice

1.Driver and passenger

This motorcycle is designed for no more than one driver and one passenger.

2.Road condition for driving

This motorcycle is only suitable for driving on roads.

3.Please read this manual carefully. The run-in time of engine is necessary, it will you're your motorcycle more durable and stable.

Please take notice of following words:

Warning: It means if you don't follow instruction, it may cause serious damage for driver and passenger.

Carefully: It means if you don't follow instruction, it may cause the person injured or damage of motorcycle.

Notice: Provide useful information.

This user manual is property of the motorcycle. If transfer this vehicle to others, you should pass this manual to new owner together with vehicle.

Without our company permission, it is not allowed to copy or translate any part of this manual.

The motorcycle uses professional oil for lubrication.

Special Notice

Warning: The motorcycle must equip the right fuse for driving, it is not allowed to use other fuse or without fuse. Otherwise it may cause damage to the vehicle or fire.

Fuse position: Beside battery.

Fuse specification: The main cable fuse is 15A, others are 10A.

The fuse failure is normally by vehicle circuit problem, before change fuse, should check the situation of vehicle. If after change fuse, it breaks again, please send the vehicle to nearest shop for service.

Notice:

※First time mounting or change battery should be careful with Anode and Cathode. If make wrong connection, should check the fuse immediately. even fuse not broken, the vehicle should be sent to service centre to check deeply. The wrong connection for anode and cathode may cause some damage of electric part. If damage part continues working, it may bring some unpredicted risk.

※Before change fuse, should take off the key in case of short circuit.

※When change fuse, should be carefully not damage the fuse bottom, otherwise it may bring damage part or fire.

Forbidden Modifications:

Please do not change original parts position, otherwise it will seriously affect the vehicle performance and safety, and even cause vehicle not driving properly. Such as modify electronic, emission and fuel system, it is not allowed legally. Our company will not take the responsibility for any change without our permission.

Context

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Important Notice

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Safety information

Safety Regulation:

1. Before driving must check vehicle, in case of accident or damage parts.
2. Driver must have a legal driving license, and is not allowed to borrow the vehicle to anyone without a valid driving license.
3. Avoid to have damage from other vehicle, driver should:
 - Wear bright colored clothes.
 - Not too close to other vehicle.
4. Strictly obey regulation, not allowed to cut in other line suddenly.
5. Most accident often happen because of speeding, so speed should not exceed the legal limits.
6. When making turns, you should use indicators.
7. In the cross, parking or fast lane, you should drive carefully.
8. Do not modify motorcycle or take off parts, it is illegal and not safe, and it will affect warranty.
9. Added accessories must not affect driving, specially overload electronic parts.

Clothes:

1. For safety reason, driver must wear helmet, glass and boot, gloves and racing suit. Passenger should also wear helmet.
2. During driving, the muffler temperature is high, do not touch muffler while driving or just after driving.
3. While driving do not wear too loose clothes.

Helmet:

It is most important to wear good quality homologated helmet and wear glasses.

Driving when raining:

Driving in the rain need special attention, the brake distance is two times more than with dry weather.

Motorcycle series number

Vehicle Identification Number (VIN) and engine number is for motorcycle registration. Please record your number for future use.

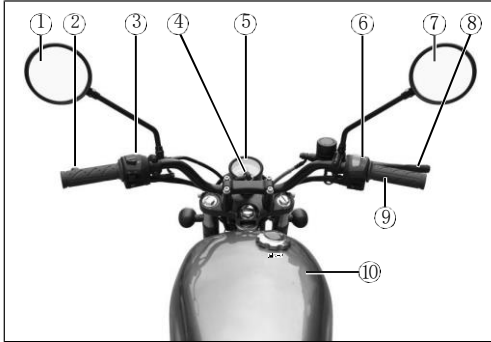
VIN number is graved on the vehicle handle bar on the right side ①, Engine number is engraved on the engine crankcase on the left side ②, Product information label on the vehicle handle bar right side ③.

VIN number: _____

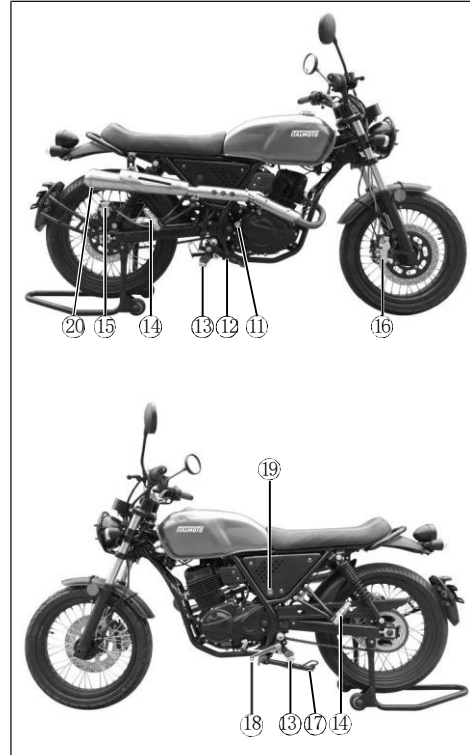
Engine number: _____



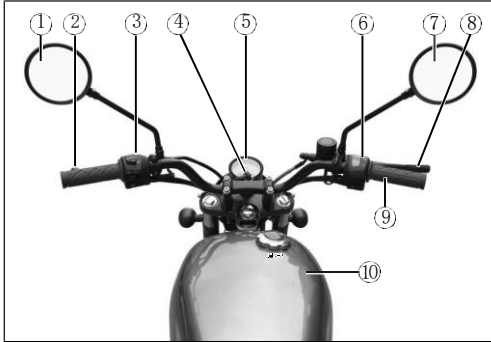
Parts description



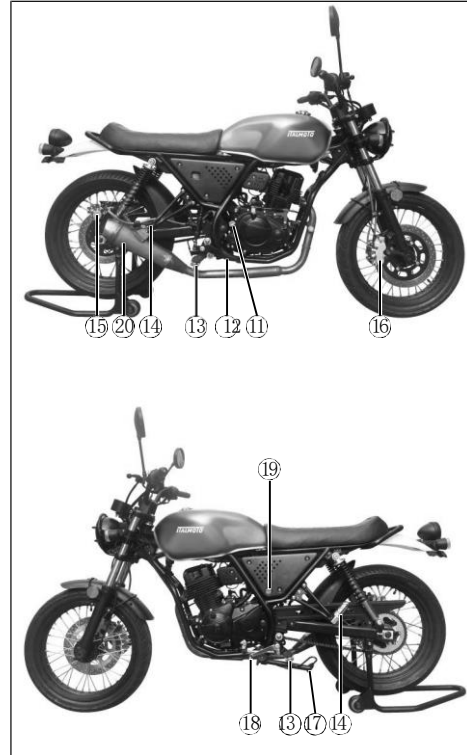
- | | | |
|--------------------|----------------------|----------------------|
| (1)Left mirror | (2)Clutch lever | (3)Left side switch |
| (4)Ignition switch | (5)Speedometer | (6)Right side switch |
| (7)Right mirror | (8)Front brake lever | (9)Throttle grip |
| (10)Fuel tank | (11)Oil cover | (12)Rear brake pedal |
| (13)Front footrest | (14)Rear footrest | (15)Rear brake |
| (16)Front brake | (17)Side stand | (18)Shift gear pedal |
| (19)Seat locker | (20)Upper muffler | |



Parts description



- | | | |
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| (16)Front brake | (17)Side stand | (18)Shift gear pedal |
| (19)Seat locker | (20)Lower muffler | |



Speedometer

(1)Turning light indicator

When the left turning light is on, the indicator blinks.

When the right turning light is on, the indicator will be blinking.

(2)Neutral indicator

When the gear is on neutral, the neutral indicator will be on.

(3)High beam indicator

When the high beam headlight is on, the High beam indicator will be on.

(4)Malfunction indicator lamp

When the key on, the fuel injection indicator is on. Oil pump will work 3 seconds, then engine will start. When the engine starts, the indicator will be off. If indicator is still on, it means there is a problem. In the same way, during normal driving, the indicator should be off. If indicator is on, it must stop driving and check immediately.



(5)Speedometer

It shows your driving speed.

(6)Odometer

This is to record the distance of all driving.

(7)Gear position indicators

Indicate the engine's gear position.

(8)Fuel Gauge

This indicates the fuel level in the fuel tank.

Operation of parts

● Keys



This vehicle has two keys, it's used to start motorcycle and open all the locks. Please keep key in a safe place. If you want to have more keys, please contact the closest dealer in your area.




● Electric power locker

Warning:


Please don't try to turn the key while driving, otherwise you might lose control the vehicle.


“” logo……when the key is on “” position, there is no power and cannot start the engine, the key can be pulled out.

“” logo……when the key is on “”

position, it has electric power and you can start engine, the key can not be pulled out.



“” position: In case of thieves, when you park, please use this function. Turn the handle bar to left, press key

down and release the key, then turn key to “” position, it will lock the handlebar. Then you can take out the key.

Notice:

when you park, please lock the motorcycle by turning and taking out the key to safe from thieves. Please park the vehicle in a proper place.

● Left grip



①Clutch lever

When you start the engine or shift up a gear, please grip clutch lever, it will stop the rear wheel from driving.

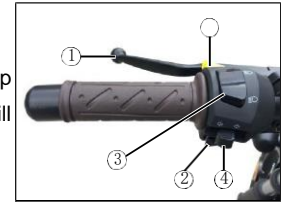
②Horn button

When you press horn button, the horn will work.

③The switch of low and high beam

when the switch on “” position, the high beam is on, and the speedometer high beam indicator will be on as well. When Switch is on “” position, the low beam will be on.

Use low beam only while driving in city areas or meeting others.



④Turning light switch

Turning switch to left “ ← ” , the left side turning light will flash. Turning the switch right “ → ” ,the right side turning light will be flashing. To dismiss the turning signal, press the switch down.

Warning:

when you change line or turn, use the turning lights on time. After turning, turn off the turning light immediately.

⑤Passing

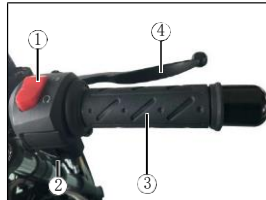
When you overtake press this button several times, the headlight will be flashing. It is only for pass or warning.

●Right side grip

①Engine off switch

When the switch is on “ ↻ ” position, it has electric power, the engine can be started.

When the switch is on “ ✕ ” position, there is no power, the engine can not be start.



Warning:

The “engine off” switch should be used only for emergencies. When the vehicle still slide, please don't stop the engine, otherwise air will mix with gas in the muffler, burning the catalyst. This may damage muffler.

②Start

When you press this button, the engine will be start.

③Throttle grip

Throttle grip controls the speed of motorcycle. when you want to accelerate speed, please turn the grip toward the driver.

④Front brake lever

For braking, grip the right side lever gradually.

● Fuel tank

When the speedometer's low fuel lever warning light is on , please add gasoline immediately. First open the anti-dusty cover as ① , then enter the key and turn as clockwise, pull out the fuel tank cap with key. Then fill in gasoline, close the fuel tank cap, align the right point, press down cap then it will be locked



Warning:

Please do not fill in too much gasoline. Do not splash gasoline on the hot engine, it is very dangerous.

Flames and smoking are prohibited when filling gasoline.

If the gasoline goes inside the carbon box, please go to the local dealer to clean or replace the carbon box. Because gasoline will make the activated carbon expire earlier.

Check the water leaking hole around the fuel tank cap, make sure it works properly and no water goes inside the fuel tank.

Notice:

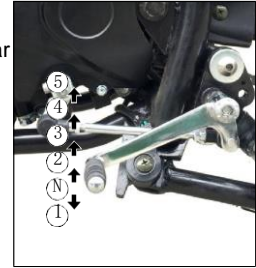
Fuel

Euro IV version: (E5)

Other version: Unleaded fuel min. 95 Octane

● Shift gear pedal

This vehicle uses international 5 gear engine. Neutral gear between first gear and second gear. When you change gear, please follow the rules.



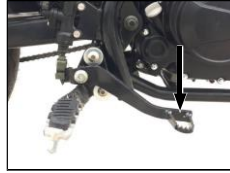
Caution:

When it is neutral gear, the indicator will be on. Please loose clutch gradually to make sure it is really in the neutral gear.

While changing gears, hold the clutch lever, change gear when clutch loose completely.

●Rear brake pedal

Press down rear brake pedal (see picture). When the brake pedal is working, the taillight will be on.



●Side stand

Side stand is on the left side, when park motorcycle, please make sure side stand in the right position. This motorcycle is equipped with a side stand switch. If the side stand is folded up, the engine can be started. otherwise, the engine is shut off and won't start.

Caution:

Please don't park the vehicle uphill, otherwise the vehicle may fall down.

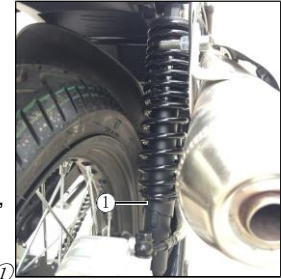
●Toolbox

Toolbox ① under the seat. Toolbox including screwdriver, sleeve, wrench.



●Rear shock absorber

The main component of this vehicle's rear shock absorber including spring and liquid damper, this shock absorber is adjustable according to different road condition. During adjustment, use side stand to support the vehicle. There's adjustable holder ①



On one end of the shock absorber spring. Use the special adjustment tool to turn the adjustable holder ① to left or right, change the spring's pressure, so change the spring between tight and loose. Adjust the left and right spring same time and to same position.

●Adjustable mirror

Turn the mirror ① and the mirror rod ② can adjust the angle of mirror.



Gasoline and oil information

Gasoline

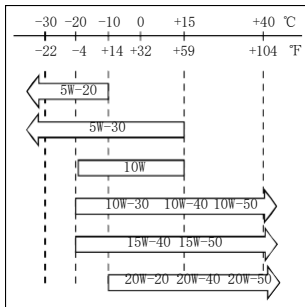
Please use lead-free gasoline. Euro IV version: E5 Other version: Unleaded fuel min. 95 Octane.

Caution:

use lead-free gasoline, spark plug will have longer life.

Oil

Please use SG or above SG grade engine oil which match SAE standard. Please buy oil from dealer according to the local climate, please check the follow chart to choose suitable oil.



Engine running in

Top speed

While new motorcycle is new, during the first 1500 km, do not make engine run at a too high speed or make sudden accelerations. It should be avoided to exceed 80% of maximum RPM.

Engine speed change

Speed should not always keep the same, it should change frequently, it helps the parts running smoothly.

Avoid running long time in low speed

Some components can be damaged if you always keep engine at a low regime, it should always change to different gear to drive.

First 800 km	Under 5000 rpm
First 1500 km	Under 6000 rpm
Over 1500 km	Under 8500 rpm

Before driving, please let oil lubricate sufficiently

Before driving, please keep engine in idle situation for at least one minute, in order to have lubrication of engine.

First maintenance

The first 1,000 km service is very important work. Please tighten all the screw and change oil.

Caution:

1,000km maintenance should follow this manual.
Please pay more attention on “Caution” and “Warning” part.

▲Special Notice

The first engine running at 300km, please ask dealer to change oil and clean oil filter and air filter. Then follow the service schedule to maintain the motorcycle.



Before driving

Before driving, it is necessary to check the following items.

Checking item	Points
Handle bar	1)Stable 2)Turning flexible 3)No loosing
Brake	1)Brake level and pedal has right feeling 2)No oil leaking
Tire	1)Air pressure correct 2)Pattern of tire correct 3)No crack on tire
Fuel	Have enough gasoline for driving
Light	Turn on/off all the lights
Indicator	Checking high-beam, gear, turning indicator
Horn	Correct
Oil	The level of oil correct
Throttle	1)The throttle grip works correct 2)Acceleration and deceleration correct
Clutch	Correct
Drive chain	1)Correct setting 2)Lubrication

Driving motorcycle

Engine start

Please turn the key to “  ” position, and the engine switch on right handle bar on “  ” position, put gear in the neutral, the gear indicator “ N “ should be on. Press the start switch, engine turns on.

Caution:

Start engine holding the clutch lever and put gear in neutral position.

When starting by electric starter, ECU will check the environment temperature and engine condition to supply necessary fuel to engine.

Warning:

Do not start engine indoor without good air ventilation. Don't leave motorcycle unattended when bike is on.

Caution:

When not driving motorcycle, don't make the engine run over speed, otherwise, engine will be over heated and some components will be damaged.

Using gear shift

Gear shift system will make engine driving smoothly. Driver should change gear according to the driving speed.

Slope driving

When riding uphill the speed will decrease and the power may not be enough. In this case, reduce gear to get more torque.

When riding downhill, put the gear in low position, it helps engine brake. Don't make the engine run at overhigh speed.

Using brake and parking

To stop release throttle and gradually use front and rear brakes.

Before completely stopping the motorcycle, hold clutch and change gear to neutral and check the gear indicator.

Caution:

Unexperienced drivers always want to use just the rear brake. This will make brakes abused very fast and brake distance will be very long.

Warning

Only using front brake or rear brake is dangerous, you may slip down or lose control. Especially in wet conditions you should pay attention while using brakes. Sudden braking is very dangerous.

Motorcycle should be parked in flat ground. If motorcycle must park in a slope place, please put motorcycle in first gear to prevent motorcycle to slip away.

Checking and serviced maintenance

The follow chart show the mileage for programmed service. When reach the mileage, you must follow the instruction to check and make maintenance. Turning system, engine, electronic system, side stand and wheels are key important parts. It is necessary to have a professional technician handling these parts.

The symbol means: I: checking, clean, adjust C: clean R: change A: adjust L: lubrication T: tight

Maintenance period Maintenance content	Odometer (KM) (Remark 2)																
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	Everyday check before riding
Oil for crankcase	R		Every 2000km R														I
Oil filter screen	C		Every 2000km C														
Oil filter		R			R				R				R				
Air filter(Remark 1)	Every 4000km clean filter if necessary please change																
Spark plug		I			I				I				I				
Valve clearance		I			I				I				I				
Gasoline filter					C				C				C				
Brake pedal		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake oil																	I
Driving chain	Every 1000km: I、A																I
Screw	T					T						T					T

Maintenance period Maintenance content	Odometer (KM)(Remark 2)																Everyday check before riding
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	
Driving chain(Remark 3)	Every1000km: I, L, A																
Friction disc					I				I					I			
Brake system		I, A			I, A				I, A					I, A			
Brake					I				I					I			
Front headlight beam adjustment					I				I					I			
Clutch		I			I				I					I			
Stand					I				I					I			
Suspension					I				I					I			
Screw/bolt/fasteners (Remark 3)		I							I								
Wheel(Remark 3)		I			I				I					I			
Turning system		I												I			

- * When the mileage is over the highest on the table, please perform according to the period set on the table.
- * If you are riding on dusty roads, it is recommended to clean it frequently.
- * If you are often riding on bad road condition, make the maintenance and service more frequently.

● Oil level and change oil

Check the engine oil before ride daily. Must keep oil level in the middle of MAX mark and MIN mark of the oil scale.

Inspection:

1. Turn on the engine and keep it idling for 3-5 minutes.
2. Stop engine, use the main stand to support the vehicle on a flat ground. After 2-3 minutes, turn out the oil scale ① and clean it, then put it back, take out again and check the oil level. The oil level must be in the middle of max mark and MIN mark of the oil scale.
3. If necessary, add specific oil to the engine, but not beyond the MAX mark of oil scale.

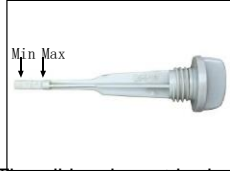
Change oil

Caution:

When the engine is not completely cooled down, it is the best time to change oil. The body should support by supporter and keep vehicle in vertical position and fast leaking all the oil.

Oil drainage

- (1) Before oil drainage, put a container under the crankcase.



(2) Take out the oil scale, oil drainage bolt ① and gasket, drain out the oil completely, install the gasket and oil drainage bolt, tightening torque: 30N.m.

2. Put 1L specific oil to the engine, check if the oil level is right.
3. Install the oil scale.
4. Turn on the engine, keep it idling for few minutes, turn off the engine
5. Check the oil scale again, keep the oil level in the middle of max and min mark of oil scale, and engine no oil leaking.

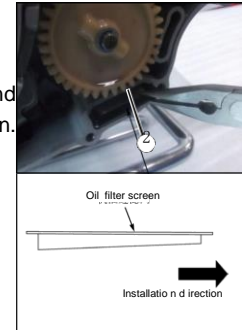
Clean the oil filter

When it's necessary, clean the oil filter.

1. Remove the right crankcase cover
2. Take out the oil filter ②, clean it and put back according to the instruction.

Attention:

(1) From the dust on the oil filter, can check out if the engine is in good condition. If there's too much metal dreg, you need to inspect the engine.



(2) Can't clean the oil filter by fuel or other liquor which is harmful to rubber.

(3) When install right crankcase, tighten the position bolt first, then tighten other bolts diagonally. Tightening torque: 30N.m

● Spark plug

Using small metal brush or spark plug cleaner to clean carbon on the spark plug in the first 1000 km driving, and do it after every 4000 km driving.

Every 8000 km driving, spark plug should be changed.

Spark plug: NGK CPR8EA



Caution:

Spark plug should not tighten too much in order not to damage cylinder header thread.

● Throttle cable adjust

1. Turn both sides of throttle grip to check if its reaction is fast or not.
2. Check the throttle cable to measure its travel degree that should be $10^{\circ} \sim 15^{\circ}$ degree.



Adjust the free stroke of throttle grip according to the following steps.

- (1) Remove the throttle cable anti-dust cover.
- (2) Loosen the nut ①
- (3) Turn the adjustable nut ②, keep the free stroke of throttle grip between 10° and 15° .
- (4) Tighten the nut ①.



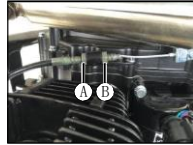
● Clutch adjust

Clutch travel distance should be around 5-15mm, if found this distance is not correct. Please follow the steps to adjust:

- (1) Move clutch cable cover.
- (2) Loose screw ①.
- (3) Loose or tighten the adjust screw ②, make the correct clutch travel distance.
- (4) Tighten screw ①.



If clutch cable lever adjusts to maximum and is still not correct, please adjust again cable and the screw ① and ②.



●Engine idle adjustment

This vehicle motor will adjust the idle automatically. If you need to change, please contact professional dealer.

●Throttle valve

The vehicle engine idle may be down because the pollution of throttle valve. It needs to clean the throttle valve every 5000 km driving .

When clean the throttle valve, disconnect anode and cathode of battery, stop the sensor of throttle valve, take away rubber pipe which connect the throttle cable and air filter. Then take away the throttle valve.

Open the valve bottom cover, and spray the cleanser inside the valve and using brush to clean dust and carbon.

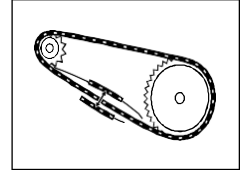
After clean, mount the valve and all other parts as original and try to start engine.

●Driving chain

The life of driving chain depending on your maintenance. Not proper maintenance will make its life shorter.

Driving chain adjustment:

Every 1000 km adjust driving chain to make the degree of chain droop as 10-20mm. according to your driving condition, it may need to adjust chain frequently.

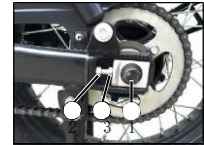


Warning:

You need to check chain every time before you drive. If the chain is too loose, it may cause the chain fall off or damage the engine.

Adjust chain according as follows:

- (1)Use supporter to support vehicle.
- (2)Loose the rear axle screw ①.
- (3)Loose the locker screw ②.
- (4)Turn left or turn right to adjust screw ③, to adjust the chain properly. When adjust the chain, it must keep the front chain wheel and rear chain wheel in the middle and in the



same line. To help you doing this adjustment, there's basic scale on the swing arm and every chain adjustment, they can match and as reference from beginning to end. After match and set the degree of chain droop to 10-20mm, tighten the rear axle screw and do final check.

Caution:

When you change to the new chain, please check if the chain wheel is ok or not. If necessary, please change it.

Checking chain, you should check the followings points:

- (1) Pin is tight or not.
- (2) Chain wheel situation.
- (3) Single chain is rusty and dry or not.
- (4) Single chain damage or not.
- (5) Adjust chain if too loose.
- (6) Adjust the loose chain.

If the chain has any of the above problem, it may come from chain wheel. You must to check following items of chain:

- (1) Chain wheel tooth may already abrade too much.
- (2) Broken or damage chain tooth.
- (3) The chain wheel screw may loose.

Lubrication of chain wheel

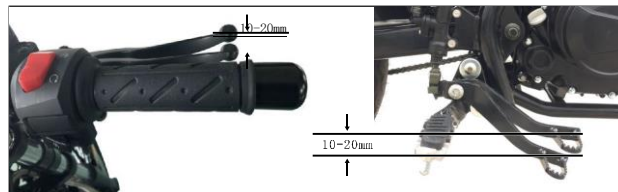
It is priority to buy professional chain oil for lubrication. And also it could use engine oil or other lubrication oil for lubrication.

● Brake

This vehicle front and rear brake are all disc brake. Correct operation for brake is very important of safe driving. It should check brake system in professional store.

Adjust brake

- (1) The front brake level travel distance is 10-20mm.
- (2) The rear brake pedal travel distance is 10-20mm.



Brake pad

Please check the front brake pad if it has been abraded mark until the scale ①. If already reach to point ①, it should change brake pad.

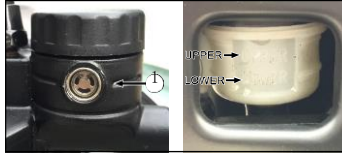


Brake oil level

When the brake pad already have been abraded, the brake cylinder oil will go

to the oil pipe automatically, so the brake cylinder oil level will be decreased. Front brake cylinder

oil level will be decreased. Front brake cylinder



on the right side of handle bar. If the oil level goes under the cylinder minimum level (L), add brake oil. The rear brake oil tank is in the middle of vehicle, please make sure the oil level is between Lower to Upper scale. If the level goes under lower scale, add brake oil. Please check brake oil level frequently.

Caution:

This vehicle is using DOT 4 brake oil. Do not use the second hand oil or the remaining oil from last maintenance. Because the oil exposed in the air will absorb water. Please do not spray oil to any painted surface, it will corrode the surface.

Brake system

Please check the brake system every day as followings:

- (1) Check for any oil leaking from front and rear brake.
- (2) Try brake lever and pedal, it should have some bounce.

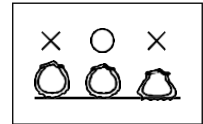
(3) Check brake pad condition.

Warning:

If brake system or brake pad need to be changed, ask a professional dealer. After each change, grasp several times brake lever and press down brake pedal.

● Tire

The correct air pressure of tire will provide stable, comfortable and durable driving feeling.



Front tire pressure	200 ± 5 kpa
Rear tire pressure	225 ± 5 kpa

Caution:

Please check tire condition when the tire is "cold".

When the middle pattern of tire already reaches to the certain degree, please change to new tire. Please follow the chart:

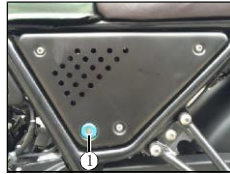
Min pattern depth of tire	
Front tire	1.6 mm
Rear tire	2.0 mm

Warning:

Please do not try to repair any damaged tire. It may affect the wheel balance and stability. A not correct air pressure will damage tire surface quickly. If the air pressure is not enough will cause wheel slip or fall off and even damage the rim, and it may cause the vehicle to go out of control.

● Seat assembly and dis-assembly

Put the key inside ① locker which is on the left side cover, and turn the key in a clockwise direction, it will open the seat. Then pull the seat to rear and take out the seat completely.



When assemble the seat, please push the seat from rear to front, and the hook ② to the point ③, slightly press down seat to fix it.

**● Air filter maintenance**

The air filter needs maintenance regularly. If the riding conditions are not good, you should check more for air filter.

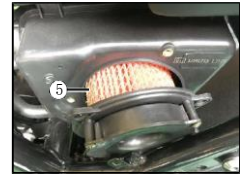
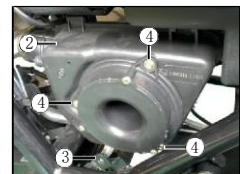
(1) Remove the left side cover ①, you will be able to see the air filter ②.

(2) Remove the side cover bracket ③.

(3) Remove the 3 bolts ④ on the air filter, take out the air filter.

(4) Clean the air filter element. If can't clean the element, change to a new one.

(5) Installation takes place in reverse order to disassembly.



Note: paper air filter element can't be cleaned.

Caution:

Gasoline or other flammability oil is not recommended for clean air filter.

●Catalyst

In order to meet the homologation standards, this vehicle muffler has a catalyst.

Catalyst contains rare metal, it will clean the harmful exhausting air which include Co, oxycarbide and oxynitride. After chemical treatment, those will change to Co₂ and oxygen. It is very important for catalyst, the faulted catalyst will make more pollution to the air or damage engine. If it is necessary to replace it, contact an authorized service point.

Caution:

Catalyst area is high temperature area, please do not touch it when warm

●Activated carbon canister

This motorcycle is equipped with fuel evaporation controller with activated carbon canister.

The activated carbon canister is located above the engine. It's filled with activated carbon particles which can absorb the steam. The activated carbon canister can control the evaporation of the fuel steam to air efficiently, save fuel and protect the environment.

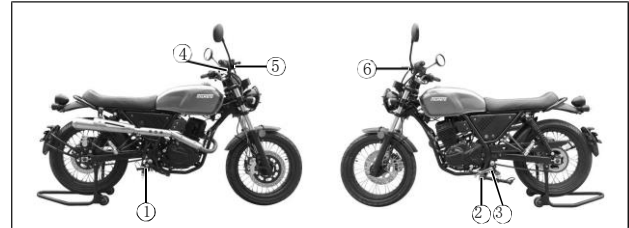
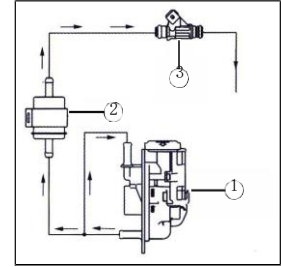
●Fuel injection and oil path

Fuel pump ① has two connectors, fuel through one connector of fuel pump to gasoline filter ② to the injector ③, finally spray the fuel and air inside engine. If the pressure is too high, fuel will go back to fuel pump through one connector.

Connecting fuel pipes, please follow the drawing.

●Parts lubrication

Proper lubrication will keep your Motorcycle safe and every part will run smoothly and increase durability. After long riding or raining, we suggest you to make lubrication maintenance. The main points are the following:



lubrication oil

① rear brake pedal axle

③ gear shift pedal axle

⑤ front brake lever axle

lubrication grease

② side stand connector and spring hook

④ throttle cable

⑥ clutch lever axle

● Battery

Battery is located under the seat. This vehicle battery is electrolyte maintain-free type. During the first time use, please ask your dealer to add electrolyte, in future it doesn't need to add anymore. To take out battery follow

these steps:

- a、 Turn off motorcycle.
- b、 Take off seat.
- c、 Take off screw and battery plate.
- d、 First disconnect negative pole(-) and disconnect positive pole(+).
- e、 Take out battery carefully. Put the battery back in opposite sequence.



Caution:

When installing the battery, you must connect cable correctly. If you do it wrong, it will damage battery and wire harness. The red cable must connect to positive pole(+), and black pole connect to negative pole(-). When you check or change the battery make sure the motorcycle is off.

First time use, follow these steps:

Take off the seal paper on the top of battery, and add special electrolyte into battery and close the cover; wait for 30 minutes.

After adding the electrolyte into new battery, charging battery will increase durability.

In order to add the electrolyte, please follow the steps:

- a、 Put the battery on the flat ground, and take off the seal paper.
- b、 Take out the container which contains the electrolyte, and remove battery cover stripe as plug. Caution: do not break the stripe, it will be used as cover for battery.
- c、 Put the electrolyte into the 6 holes and fill in.

Caution

You must put battery in the flat ground, otherwise electrolyte can not fill in completely.

- d、 Check the left and right side, it must have bubble coming out from side pillar and wait for at least 20 minutes.

If from both side (left and right side) bubbles do not come out, pat slightly to the battery bottom 2 or 3 times, and check if any bubble comes out again.

e、 After electrolyte completely fills in, pat slightly to the battery bottom several times, and take out the vessel.

f、 Put the strip into the battery's 6 holes separately, and press down the strip until it gets flat with the surface.

After filling in electrolyte, do not take out strip or add any water or electrolyte.

Change battery, please take note as following:

Change battery just with suitable ones. If battery type is not correct it will damage vehicle and generating problems to the circuits. If you plan not to the ride motorcycle for long time, remove battery from motorcycle and charge it once every month.

Warning:

Battery is exposed to air, be careful with spark, flame.

Battery including vitriol, it is not allowed to contact electrolyte. It will hurt skin or eye. Battery is dangerous poison material. Keep away from kids.

●Fuse change

The fuse box under the seat of driver, on the side of battery.

The fuse box spec as drawing:

If fuse breaks many times, it means that there is a short circuit or an electric overload.

Ask your dealer to check.



Warning:

While checking or changing fuses, turn off the power. Do not use fuses which do not match this vehicle specs, otherwise it will bring serious problem to electric circuit, and even will burn the vehicle or lose engine power.

● Front headlight adjustment

Front headlight beam can be adjusted in vertical direction. The beam adjust screw ① is located on both sides of front headlight. Use 13# wrench separately loose front headlight left and right side screw ①, adjust the beam to suitable position and lock the screw ①.



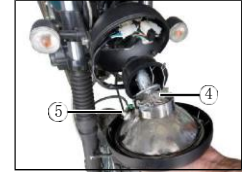
Caution:

In order to adjust the beam, driver should be on the seat and keep the vehicle in the vertical position.

● Bulb change

When change broken bulb, use original Italmoto bulb. If the specification is not the same, it will bring problem to the circuit. Suggest you change bulb in your dealer's shop.

(2) Remove the screws in picture ③, take off lamp cover, take out bulb, change to new bulb. (3) Take out the position light ③, change to 12V 4W bulb.



(4) Assemble back light.
Headlight bulb: 12V 35W/35W(HS1)
Front position light bulb: 12V 5W

Rear light (brake and rear position light) change

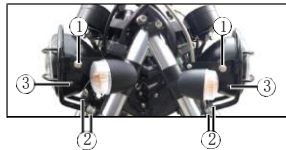
Brake light, rear light ① are all LED

light, if needed to change, please contact your dealer.



Front headlight, position light change

(1) Take off the screw 2 as picture ①, take out the screw



in picture ②, remove the headlight fender.

Front, rear turning light bulb change

(1) Turn the lamp cover in clockwise direction, take out bulb to change R 10w, 12v 10w bulb.

(2) Assemble back.



Store information

Store

If need to store vehicle in long period, take certain maintenance to protect vehicle:

1. Change engine oil.
2. Lubricate driving chain.
3. Make the fuel tank and injection system as empty as possible.

Caution:

If Gasoline stay stored for long time it might get ruined, it will be very difficult to start the engine.

Warning:

Gasoline is very flammable, when you empty the gasoline, please keep away from sparks or fireworks.

4. Take off spark plug and fill in 15-20 cm³ oil into cylinder, then start engine several times. It makes oil spray to every part of cylinder, then mount spark plug again.
5. Take out battery, put it separately somewhere. But not too cold and avoid exposure under sunshine.
6. Clean and dry the motorcycle.
7. Check the tire air pressure properly.
8. Cover the motorcycle and store it in the place where temperature does not change too much. Don't park the motorcycle under direct sunshine.

End of store and using

If you do not use the motorcycle for over 4 months, to use it again change engine oil.

Check battery and all other parts and test bike first.

Specification

Size&Weight

Length	Upper license plate 1940mm Lower license plate 1995mm
Width	760mm
Height	1060mm
Wheel base	1350mm
Seat height	755mm
Weight	126kg
Front wheel axle load	96kg
Rear wheel axle load	180kg

Engine

Engine type	152FMI-5P
Bore × Stroke	52.4 × 57.8(mm)
Displacement	124.7ml
Max power	7.2kw/8500 r/min
Max torque	Upper muffler 8.6N · m /6000r/min Lower muffler 9.4N · m /5000r/min
Ignition	ECU
Compression rate	9.2:1
Start	Electric start

Transmission

Clutch	Wet multi disc clutch
Gear shift	Five gears
Frist reduction gear	3.350
Final reduction gear	3.214
First gear ratio	3.077
Second gear ratio	1.789
Third gear ratio	1.304
Fourth gear ratio	1.091
Fifth gear ratio	0.929
Intake valve clearance	0.04- 0.07mm
Exhaust valve clearance	0.04- 0.07mm

Frame

Front suspension	Hydraulic shock
Rear shock absorber	Hydraulic monoshock
Brake method	CBS
Front brake	Disc
Rear brake	Disc
Front rim	2.50 × 17
Rear rim	3.00 × 17
Front tire	100/80-17 52S or 52H or 52P
Rear tire	120/70-17 58P or 58H

Electric system Battery

Battery	12V 7AH
Magneto	Permanent magnet
Front headlight	12V 35W/35W
Rear light	1.7W LED/12V 4.5W
Turning light	12V 10W
Fuel injection	12V
ECU	12V

Capacity

Fuel tank	13L
Oil tank	1.0L

Performance

Max speed	88km/h
Climb ability	≥20°
Brake distance	≤7m (30km/h)
Fuel consumption	≤367(g/kw.h)
Loading	One passenger & driver
Gasoline type	Euro IV
version: E5	
Other version:	Unleaded fuel min. 95
Octane	
Fuel consumption	Upper muffler 2.6L/100km Lower muffler 2.0L/100km
CO ₂ emissions:	Upper muffler 57g/km Lower muffler 45g/km

WARRANTY

Frame no.

Engine no.

Date of Delivery

Address

Postalcode

City

Telephone

Date of birth

Profession

We hereby certify that this vehicle has been manufactured in compliance with the assembly instruction and inspected according to the predelivery checklist. The customer states that he or she has taken note of this, and has also received the delivery instructions.

Client Signature

Stamp and Signature of the Dealer

Dealer Copy

WARRANTY

Frame no.

Engine no.

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Stamp and Signature of the Dealer

DELIVERY CERTIFICATE

Customer copy

CUSTOMER

Frame no.

Engine no.

Model

Name

Surname

Address

City

Postalcode

Telephone

I declare that I have received today the above-mentioned motorcycle complete and in conformance with my expectations.

Customer Signature

The motorcycle has been prepared for delivery carrying out all the pre-delivery checks and operations envisaged by the Italmoto S.r.l., and complete with all the eventual optional accessories requested by the Client.

Stamp and Signature of the Dealer

DELIVERY CERTIFICATE

Dealer copy

Frame no.

Engine no.

Model

CUSTOMER

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Dealer

Date

Model

Note

PRE-DELIVERY INSPECTION

- Engine Oil
- Trasmission
- Gear Oil
- Break Liquid
- Front Break
- Rear Break
- Air Cleaner
- Trasmission Bels
- Spark
- Other _____

**Maintenance Service
1000km/600mi or 6 month**

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

**Maintenance Service
4000km/2500mi or 12 month**

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

**Maintenance Service
8000km/5000mi or 24 month**

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
10000km/6000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
12000km/8000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
16000km/10000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
20000km/12000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
22000km/14000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____

Maintenance Service
25000km/16000mi

STAMP

Km/mi _____

Date _____

SIGNATURE

Note _____



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