

PMZ125-1

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**OPERATIONAL INSTRUCTION**

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## FORWARD

Thank you for your purchasing motorcycle.

This manual covers the main data, basic structure, and main procedures of operation, adjustment, main tenance and troubleshooting of motorcycle. It will help you familiarize your self with all the necessary skills so that you will bring your vehicle into full, best play with minimized trouble for a long service life.

Products are always subject to further improvement, which will cause some difference between the vehicle and this manual, without further notice.

Due to printing reasons, the kind with the pictures may vary, please kind prevail.

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## I. SAFETY DRIVING

### Rules for Safe Drive

Check must be conducted, before starting the engine, to prevent mishaps and damage to components.

Only the qualified person, who has passed the drive examination and to whom a drive license has been issued, is permitted to drive the vehicle but not any body else without a drive license.

Full preoccupation is required during drive, paying attention to the following points to avoid any possible hurt to you by other motorized vehicles:

- Do not drive too close to other vehicles.
- Never contend for lane.
- Strictly observe the local traffic rules.

As driving at over speed is the cause of many accidents, do not drive at a speed the actual situation does not permit.

Turn on the turnlight when making a turn or changing the lane.

Particular care should be exercised at the level crossing of roads, entrance and exit of parking lot or on the automobile lane.

During drive, grasp the left handlebar by the left hand and the throttle twist grip by the right one, with feet on the footrests.

The luggage carrier is designed for carrying light goods, which should be securely fastened to prevent loose movement that may cause mishaps during drive.

### Protective Wear

1. Protective wear such as helmet with protective mask, dustproof glasses and gloves should be worn during drive for the sake of personal safety.
2. The passenger should wear high boots or heavy clothes to protect

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legs from hurt by the heated exhaust silencer during ride.

3. Loose clothes are not suitable for motorcycle drive or ride as they may get caught on the operating lever, kick leer, footrest or wheel, resulting in danger.

#### Modification of the vehicle

##### Caution:

*Any unauthorized modification of the vehicle or replacement of the original parts can not ensure driving safety and is illicit. The user must observe the regulations of the traffic control authorities. We are not responsible for any vehicle with unauthorized modification.*

#### Loading of goods

##### Caution:

*The design of the motorcycle requires distribution of the carried goods in certain extent of equilibrium and improper arrangement of goods will adversely affect the performance and stability of the vehicle. The manufacturer shall not take any responsibility due to the reason mentioned above.*

## II. MAIN DATA

ITEM	DATA
Overall Length	1760 mm
Overall Width	755 mm
Overall Height	1010 mm
Wheelbase	1200 mm
Dry Weight	102 Kg
Max. Load	150 Kg(include the driver)
Front Wheel	120/70-12
Rear Wheel	130/70-12
Max. Speed	≥ 84 km/h
Brake Distance	≤ 7 m (30km/h)
Climbability	≥ 16°
Cylinder Bore × Stroke	52.4 × 55.5 mm
Compression Ratio	9.1 : 1
Output, Max.	5.6 Kw/8000r/min
Torque, Max.	8.5 N.m/5500r/min
Idling Speed	1500 ± 150 r/min
Displacement Of Cylinder	120 ml
Spark Plug	A7RTC
Spark Plug Gap	0.6-0.7 mm
Cap Of Air Valve	Intake Value: 0.05 mm
	Exhaust Value: 0.05 mm
Ground Clearance	165mm

To be Continued.....

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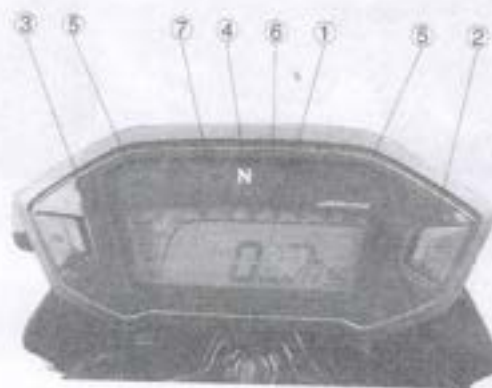
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ITEM	DATA
Volume Of Lubricating Oil	0.9L
Capacity Of Gasoline Tank	5.5L
Transmission Ration	
1st Gear	2.833
2nd Gear	1.706
3rd Gear	1.238
4th Gear	0.958
5th Gear	
Transmission Ratio Of Sprocket	2.714
Primary Transmission Ratio	4.059
Battery	12V5Ah
Fuse	10A
Front Light Illuminator	12V-35 W/35 W
Tail Light / Braking Light	12V-5 W/21 W
Betraying Light	12V-5 W
Turn Light	12V-10 W x 4
Neutral Light	12V-3 W
Turn Indicator	12V-3.4 W x 2
Meter Light	12V-3 W x 2
High Beam Indicator	12V-3 W
Ignition Means	C.D.I

### III. PARTS & SUBASSEMBLIES



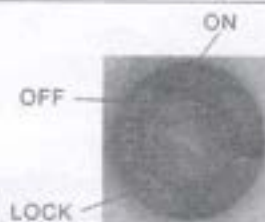
Ser. No.	Name	Description
①	LCD Display	According to driving various kinds of data
2	"Set" Button	Pattern adjustment button
3	"SEL" Button	Parameter adjustment button
4	Neutral Indicator	It's lit up when in the neutral position
5	Turn Indicator	The left indicator is lit up when the turnlight is to the left and right one lit up as the latter to the right
6	High Beam Indicator	It's lit up when in the Headlight is in high
7	Engine Trouble Light	If the engine has a failure, the lights



## IV. OPERATION

### Ignition Switch

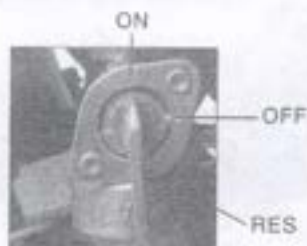
Position	Function	Remark
OFF	Be used for parking	Pull out key
ON	Be used for starting /driving	Can't pull out key
LOCK	Be used for Locking steering	Can't pull out key



### Fuel Cock

#### ① Fuel filling

The capacity of the fuel tank is 12l, in total including 1.1L of reserve. Leadless gasoline of No.90 or above or low lead gasoline is required for the motorcycle. To fuel the vehicle, support it by the main stand, open the lock cover of the fuel tank and fill fuel through the



opening, and then close the tank by the cover with the two on them in good alignment.

② Operation of the fuel cock (the valve of fuel tank)

ON: With the handle of the fuel cock to "ON" position, the fuel circuit is through for fuel supply.

OFF: With the handle of the fuel cock to "OFF" position, the fuel circuit is cut off without supply.

RES: With the handle of the fuel cock to RES position, the fuel is supplied from the reserve.

*Note: The reserved fuel can only be used when the normal supply is run out.*

In this case, refueling should be carried out as soon as possible, for there is only some 0.8L of fuel reserve for use.

### Engine Starting

- ① Set the key of the ignition switch to "ON" position.
- ② Set the emergency stop switch to "O" position.
- ③ Ascertain the neutral position, where it should be displayed.
- ④ Ascertain the amount of fuel in the tank.
- ⑤ Set the fuel cock handle to "ON" position.

#### To start a cold engine:

- ① Pull up the choke bar of the carburetor (to close the choke).
- ② Rotate the throttle twist grip by 1/8 to 1/4 turn.
- ③ Start the engine by the electric or the kick starting system.



④ Slightly turn the throttle twist grip to increase the speed of the engine so as to warm up the engine.

⑤ Turn the carburetor choke bar downward to "B", fully open the choke when the engine is sufficiently warmed up.

Caution:

The engine can only be started after the neutral position is ascertained. Otherwise accident will happen.

Unnecessary idle running (especially at a high speed) is harmful to the engine.

#### Procedures of stopping engine:

- ① Release the throttle twist grip to slow down the engine.
- ② Turn to the neutral position.
- ③ Set the ignition switch key to "OFF" position.
- ④ Set the fuel cock (the fuel tank valve) handle to "OFF" position.

#### Switches on Right Handlebar

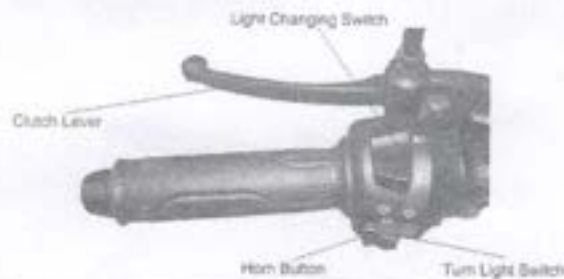
When starting the engine, set the emergency stop switch in "⊗" position to directly stop the engine by cutting off the electric power.

#### Switches on Left Handlebar

- ① Headlight switch

The Headlight switch has three positions "☾", "☼" and "●" (a white point).

"☾": When the switch is in this position, tail the headlight and meter lights are all lit up.



\* ☀ \* :When the switch is in this position,the tail, betraying and meter lights are lit up.

\* ● \* :When it is in this position,the headlight tail, betraying and meter lights are all off.

The headlight and taillight will be lit up only after the vehicle is started.

Emergency stop switch

② Light changing switch

\* ☰ \* Position,Headlight is in high beam.

\* ☷ \* Position,Headlight is in low beam.

③ Turnlight switch

\* ← \* Position, Left

\* → \* Position, Right

④ Horn button

Press this button to horn.

④ Overtaking Light

Press this button For passing action.

### Gear Shifting

Warm up the engine for normal tuning.

1. When the engine is idling,disengage the clutch and tread the gear shifting pedal to et the gear to the 1st position.



2. Gradually increase the speed of the engine and slowly release the clutch lever, with a good coordination between the two operations to ensure a natural driving staff.
3. When the motorcycle reaches a balanced state of running, slow down the engine, disengage the clutch again and tread the shifting pedal to change the gear to the 2nd position. The gear can be shifted to other positions in the same way.

**Note:**

*(N) - Neutral Gear*

*(1) - First Gear*

*(2) - Second Gear*

*(3) - Third Gear*

*(4) - Fourth Gear*

## V. CHEEK-UPS, ADJUSTMENTS AND MAINTENANCE

### Machine Oil Checking

The vehicle should be checked for machine oil before drive, by supporting it with the main stand on a flat ground. The oil level should be between the upper and lower lines of the oil gauge, which is not screwed into the filling orifice.

High quality 4-stroke machine oil, as Class SE or SD in API classification, of SAE15W-40QE in viscosity will help maintain a long service life of the engine. In case those are not available, a substitute suitable for the ambient temperature of application should be selected according to the table on the right side.

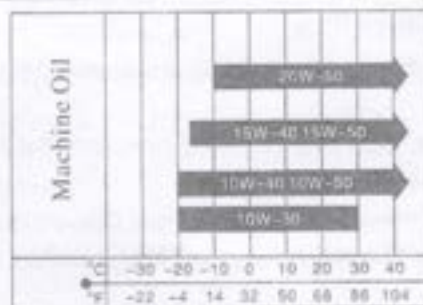
Machine Oil Gauge



### Renewal of Machine oil

Machine oil plays a very important role in the normal operation of the engine and for that reason, it is necessary to check the motorcycle for machine oil periodically and renew the oil once every 800 - 1000 km of drive by the following procedures.

Remove the screw plug from the bottom of the hot engine to drain off all old oil.



Wash the oil filter screen clean and remount it really to position. Then fill in 0.9L fresh machine oil and start the enging for idle running 2 - 3 minutes.

Let the engine stop for 2 - 3 minutes, and check to see whither the oil level is in be tween the upper and lower line the oil gauge.

Do not use any machine oil of a different grade than the specified one to avoid machinery failure.

#### Cleaning of Machine Oil Tank

- 1 Drain off all the run-in machine oil from the oil tank.
- 2 Dismount the related parts.
- 3 Wash clean all the related parts.
- 4 Fill in the required oil.

\*This job should not be done by any untrained persons but shall be done at an authorized service center.



Drain Plug for Oil Draining

### Check-up of Spark Plug

- ① Remove the cap of spark plug and screw off the spark plug by the plug wrench.
- ② Clean the spark plug all around or replace it if it is corroded or there is too much deposit on it.
- ③ Regulate the gap of the spark plug to 0.6 - 0.7mm.
- ④ The spark plug of the designated type should be used.



### Check-up, Cleaning of Air Filter

Take out the air filter and check if it is contaminated.

#### Dismounting:

*Remove the left side cover screw of the filter, open the left cover and disassemble the air filter.*

#### Cleaning:

- Wash the filter in clean washing oil and wipe it dry with dry cloth.
- Soak the filter element in clean machine oil, squeeze it dry and fit it back to position.
- Recommended oil: 15W/40QE

### Adjustment of Throttle Cable

Make sure that the adjusting nut of the throttle cable works normally.

Check to see if the throttle twist grip is with fine required free operating movement.

The required free operating movement: 2-6mm.

If the grip can not be so moved freely, turn the adjusting nut to ensure it.

After adjustment, start the engine and check for the free operating movement again.

Repeat the adjustment if necessary until it is as required.



Idling Speed Adjusting Screw

### Adjustment of Carburetor

#### Caution:

- *The idling speed adjustment of the engine should be carried out with a hot engine.*
- *Set the idling speed to the required value by the help of the idling speed adjusting screw with the vehicle standing on a flat ground.*

The required idling speed: 1500 ± 150r/min.

### Check-up & Adjustment of Air Valve Gap

Noise will stem from too big gap of the air valve. However if there is too small gap or even no gap at all, closing of the valve will be hindered, which will cause burn of the valve and output drop. Therefore, the air valve gap must be checked periodically.

The gap of the air valve should be inspected and adjusted with a cold engine by the following procedures:

- ① Remove the caps of the central hole and the top hole (the ignition timing observation hole) in the left crankcase cover.
- ② Remove the caps of the two air valves on the cylinder head.
- ③ Insert the "T" key into the central hole of the crankcase cover, jam it against the nut of the flying wheel and then turn the flying wheel clockwise until the engraved "T" mark on the flying wheel aligns with the engraved line on the top of the crankcase cover. Swing the rocking arm slightly. A loose rocking arm (which indicates the existence of clearance) shows that the piston is



Central Hole Cap

Valve Cap

in the lower stop position of the compressing stroke. In this case, continuously turn the "T" key clockwise for 360 degrees until the alignment of those engraved marks, where the valve can be adjusted. Afterwards, check the valve gap by inserting a feeler in between the valve adjusting screw and the end of the valve. The specified air valve gap: 0.05mm for the intake and exhaust valves respectively.

4. If the adjustment needed, loosen the locking nut of the valve, turn the adjusting nut till a slight resistance is felt on inserting the feeler.

At the end of the adjustment, tighten the "Locking nut" to prevent loosening and conduct another check to make sure that the valve gap is OK before all those dismantled caps are refitted on.

#### Adjustment of Clutch

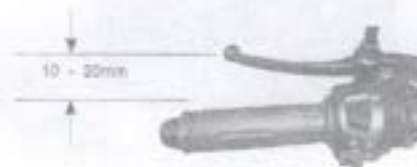
\*The clutch should be adjusted with the engine in stopped state.

There should be a free operating movement of 10 - 20mm at the end of the clutch lever as shown in the figure on the right side.

When adjustment is needed, loosen the locking nut on the clutch operating cable and set the clutch lever to the required range of free operating movement. In case of adjustment, it be made to a great extent, turn the clutch adjusting screw sludon the right crankcase.

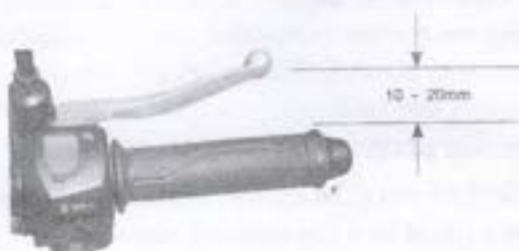
Is tart she engine to ascertain whether the adjusted clutch works normally.

\*Readjustment has to be made if there is slipping of clutch or difficulty in the engagement of gears.



### Brake Checking

- (1) Pull up the front and rear brakes respectively and check for wear of the brake shoes. If the mark on the brake drum cover aligns with that on the brake cam, it means that the brake shoes are already worn to the limit and have to be replaced.
- (2) Replacement should be carried out at a designated service center and it is recommended that the parts made by our company are used therein 10 - 20mm.



Disc Brake Assy.



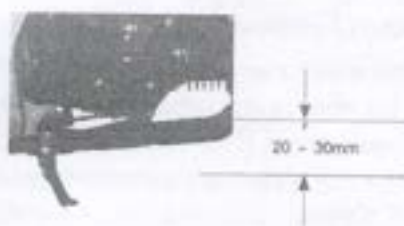
Plate of Disc Brake

### Adjustment of Front Brake

- (1) The front brake lever has a free operating movement of 10 - 20mm as shown in the figure on the right side.
- (2) If adjustment is needed, turn the adjusting nut near the lower side of the front hub, clockwise to reduce and counterclockwise to increase the free operating movement of the brake lever.
- (3) After adjustment, the groove of the adjusting nut should be aligned with the pin of the brake arm.

**Caution:**

- After adjustment, check the front braking system.
- The braking light should be lit up on time when the front brake is applied by gripping the brake lever.



Disk Brake Assy.



Plats of Disc Brake

### Adjustment of Rear Brake

The vehicle should be supported by the main stand for check.

- (1) The rear brake pedal has a free operating movement of 20 ~ 30mm as shown in the figure on the right side.
- (2) To make adjustment, turn the rear brake adjusting nut clockwise to reduce and counterclockwise to increase the free operating movement of the brake pedal.
- (3) After adjustment, the groove of the adjusting nut should be aligned with the pin of the brake arm.

**Caution:**

*After regulation, check the rear braking system. The braking light should be lit on time when the rear brake is applied by stepping down the brake pedal.*

### Adjustment of Chain

Check the chain for wear, tension and lubrication.

- (1) With the motorcycle supported by the main stand, turn the upper and lower portions of the chain by hand to check for its tension to see if the sag is within the specified range of 10 ~ 20mm.
- (2) When regulation is needed, loosen the axle nut and locking nut of the rear wheel, then set the chain to the required tension by turning the adjusting nut.
- (3) Apply a little grease to the chain.



**Caution:**

*At the end of regulation, the marks on the chain adjuster should be in good coordination with the engraved line on the horizontal fork at position is concerned.*

**Adjustment of Braking Light Switch**

The braking light should be lit up on time as soon as the rear wheel is braked. If not, regulation shall be made by turning the adjusting nut.

With the braking light switch in "ON" position, the braking light should be lit up. If not, check should be carried out to see whether the braking lamp, circuit and switch work normally, make replacement if needed.

**Caution:**

*For the adjustment of the braking light switch, the brake needs to be first checked to make sure that the free operating movement is ensured within the specified range.*

**Battery Vhecking**

- (1) Open the right side cover.
- (2) Clean away dust and corrosive from the surface of the battery.



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(3) Set the vehicle in a vertical position to see whether the level of the battery electrolyte is between the upper and lower mark lines. If it is below the lower one, distilled water shall be added to the battery.

(4) Seriously corroded conductor connectors of the battery shall be replaced.

#### Caution:

- *To dismantle battery, disconnect the negative (-) electrode before the positive (+) one, and vice versa in installation.*
- *Ensure against any contact of the positive (+) electrode with the vehicle body.*
- *Never have the electrolyte level come over the upper mark line when adding distilled water.*
- *Otherwise overflow and corrosion will occur.*
- *The electrolyte contains sulfuric acid and will cause serious hurt to skin and eyes by contact.*
- *In case of contact with it, wash it off for 5<sup>+</sup> minutes and see a doctor immediately.*
- *Foreign matter should be prevented from entering into the battery during dismantling and installation.*
- *The breathing pipe must be kept unblocked.*

#### Replacement of Fuse

Set the ignition switch to "OFF" position. The specified fuse tube of 10A should be used for replacement.

Open the left side cover, remove the fuse holder on the side of the battery and replace the fuse tube.

If the new fuse tube is broken again as soon as it is fitted on, it means that there is some trouble with other electric parts.

#### Caution:

- *Do not use any fuse over 10A.*
- *Be sure not to wash the battery when washing the vehicle.*

### Vehicle Washing

Cleaning the vehicle regularly can slow down the color fading of its body make it easier to check if there is any damage and any oil leakage with it.

#### Caution:

● *Washing the motorcycle with over-pressurized water may cause damage to some of its components. Therefore, do not jet over-pressurized water directly on to the following parts:*

- Wheel hub
- Exhaust pipe
- Fuel tank and lower portion of cushion
- Carburetor
- Head lock and ignition switch
- Meters

(1) After pre-wiping, the vehicle should be washed with clean water to remove dirty residues so as to prevent corrosion. Plastic subassemblies should be cleaned by wiping with cloth or sponge soaked in neutral detergent solution, followed by washing with clean water.

(2) After the cleaned vehicle is air dried, grease the chain and run the engine at idling speed for a few minutes.

(3) Prior to driving, carefully check braking system repeatedly and repair or adjust it if necessary.

### Maintenance in Non-use Time

#### Storage and Maintenance

For the motorcycle to be stored for a long period of time, attention should be paid to the prevention of moisture, sunshine and rain attack in order to protect it from unnecessary damage. Special checkups should be carried out on those important parts and subassemblies before storage.

(1) Change lubricating oil.

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(2) Grease the chain.

(3) Drain off fuel from the fuel tank and carburetor (for the vehicle not to be used for over a month, the fuel in the latter must be thoroughly drained away), turn off the fuel cock and fill antirust solution into the fuel tank, followed by closing the tank with the cover.

#### Caution:

● *As fuel is inflammable, the engine should be stopped before filling or drain fuel and it is prohibited to smoke at the fuel storing, filling or draining location.*

(4) Take out the spark plug, fill about 15 - 20ml of clean lubricating oil into the cylinder, step down the kick lever repetitively for several times and finally fit the spark plug back on.

#### Attention:

● *The ignition switch key must be set to "OFF" position before stepping down the kick lever.*

● *To protect the ignition system from damage, the spark plug should be put on its cap and earthed.*

(5) Dismantle the battery and put it in a shady, cool and well-ventilated place. It's suggested that the battery be charged once a month.

(6) Clean the vehicle, spray the colored pad with color fastening agent and apply antirust oil to the part vulnerable to rust.

(7) Inflate the tires as required and pad the vehicle up with the two wheels clear of the ground.

(8) Put the covering over the motorcycle.

#### Resumption of Service

(1) Remove the cover and clean the vehicle.

Change the lubricating oil if the vehicle has been off set, Ace for over 4 months.

(2) Charge the battery and remount it.

(3) Drain off the antirust solution from the fuel tank, followed by

filling fuel therein to lbc required level.

(4)Prior to driving, test the vehicle at low speed in a safe place.

### Maintenance Routine Diagram

The vehicle should be under good maintenance as specified in the following table, where;

"I" means: Check, cleaning, adjustment, luhrication and / or replacement are needed.

"C" means: Cleaning is needed.

"R" means: Replacement is needed.

"A" means: Adjustment is needed.

"L" means: Lubrication is needed.

\*\*\* means: This item of maintenance should be carried out at a service center. It may he also done by the user himself with reference to this manual provided he has special tools,sparts and is capable of this job.

\*\*\*\*means:This item can only be carried oat by the serviceman at General Accessories Corp. service center in order to ensrue safety.

(See the next page table.)

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Description	Driving distance					
	500Km	1000Km	4000Km	8000Km	12000K	
Fuel System		C	I	I	I	
Fuel Filter Screen		I	C	C	C	
Throttle Operation			I	I	I	
Choke			I	I	I	
Air Cleaner	I		C	C	C	
Spark Plug			R	R	R	
Carburetor Idle Speed	I		I	C	I	
Engine Oil	R	R		200Km		
Oil Filter Screen	C	C		C	C	
Brake System		I	I	I	I	
Driven Chain	I	I		1500Km		
Clutch	I	I	I	I	I	
Headlight			I	I	I	
Brake Device	I	I	I	I	I	



### Remote-Controller's Function Operation And Instructions

Function operation:

● Set acousto-optic anti-theft:

Press the button. The horn will sound & the turnlight flash once. Three seconds later, be in the warning state of acousto-optic anti-theft.

● Anti-theft sensing:

In the state of anti-theft, any shock to the motorcycle makes the system present impedance followed with horn sounding once & turnlight flashing once. In case of further harassing activities within the following three seconds, the system is to sound the alarm immediately; horn ringing, turnlight flashing and engine being locked automatically. Remain warning state after the alarm stopped automatically. In case the motorcycle is stolen, electric switch shall flash and engine being locked automatically.

● Anti-theft relieving:

In the state of anti-theft, press the button and the horn will sound twice & the light flash twice to relieve the state of anti-theft.

● Remote-control starting:

Press the button to ignite and drive the motorcycle without start. If difficult, press the button longer till starting.

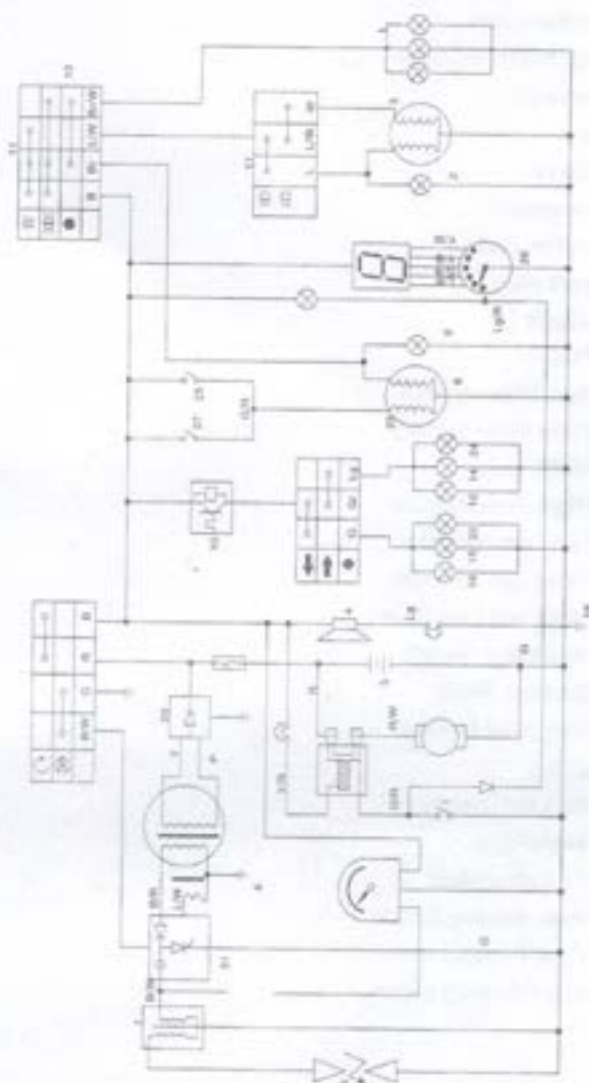
Press the button to stop the motorcycle in the state of remote-control starting.

● Anti-rob:

In the state that the engine is working, press the button to stop the motorcycle in such emergencies as being robbed or stolen.

● Acousto-optically target-seeking:

## VI. ELECTRICAL DIAGRAM



**The Note of Electrical Diagram**

1. Position Light
2. High Beam Indicator
3. Headlight
4. Horn
5. Battery
6. Grenerator
7. Lgnition Coil
8. Spark Plug
9. Taillight
10. Flasher
11. Illuminator Switch
12. Front Right Turnlight
13. Meter Light
14. Right Turn Indicator
15. Left Turn Indicator
16. Front Left Turnlight
17. Hight and Low Beam
18. Illuminator Switch
19. Earthing Piece
20. Regulator Reelifier
21. C.D.I.
22. Rr. Leftturnlight
23. Brake light
24. Fr. Leftturnlight
25. Rear Braking Switch
26. Gear Position Switch
27. Front Braking Switch