OWNER'S MANUAL

150CC ARROW SCOOTER
MODEL #1502

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This manual has been updated, yet due to Our improvements you may find some difference between your motorcycle and this manual, therefore if you have any questions or comments please contact local Service Center

For any repairs not mentioned in this manual or accessories required please contact local Service Center

Use only spare part and accessoties by us.

The meaning of some signs in the manual as follows:

⚠ WARNING

Indicates potential hazard that could result in death and injury.

⚠ CAUTION

Indicates potential hazard that could result in vehicle damage.

⚠ ADVICE

Indicates special information to make maintenance easier or instructions clear.

Drive Safely 3
Know your motorcycle 4
Tools Location 5
Indicators Description 6
Principal Commands 7
Starer Switch 8
Compartments Access
Seat Lock..... 9
Luggage Box 9
Front Bag..... 10
Fuel Tank 10
How to Start Engine 11
How to Ride 12
Brakes 13
Storage 13
First Mileage
Mileage 14
Motorcycle ID 14
Checking your Motorcycle
Daily Check 15
Easy Check 16
Brakes 16
Engine Oil 17
Air Filter 18
Battery 18
Fuse 19
Rinse 19
Storage 20
After Storage 20
Techiical Information 21
Specifications 22

This manual should be considered as a formal part of your motorcycle and should always stay with it even at resale.

This chapter shows some rules you should follow through driving:

. It is necessary to consider all the requirements provided by law (license, plates, etc.)

. It is recommended that while felling confident with your motorcycle driving through low transit areas

. Never lend your motorcycle to learner, most of the accidents occur due to the lack of experience of driver

. Do not drive under the use of alcohol, drugs or medical treatment than can cause drowsiness

. Respect norms of transit and signs

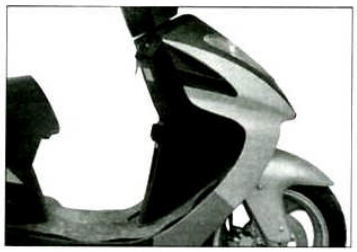
. Make sure to wear helmet, gloves and protective clothing

. Drive with both hands and keep feet on the stirrup

. Drive should not get distracted (by smoking, drinking, reading, eating, etc.)

. Check vehicle periodically(oil, fuel, etc.)

. The motorcycle is fesigned to hold two passengers.



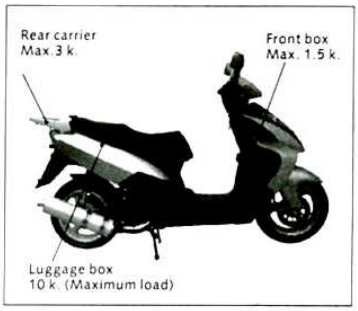
⚠ LUGGAGE

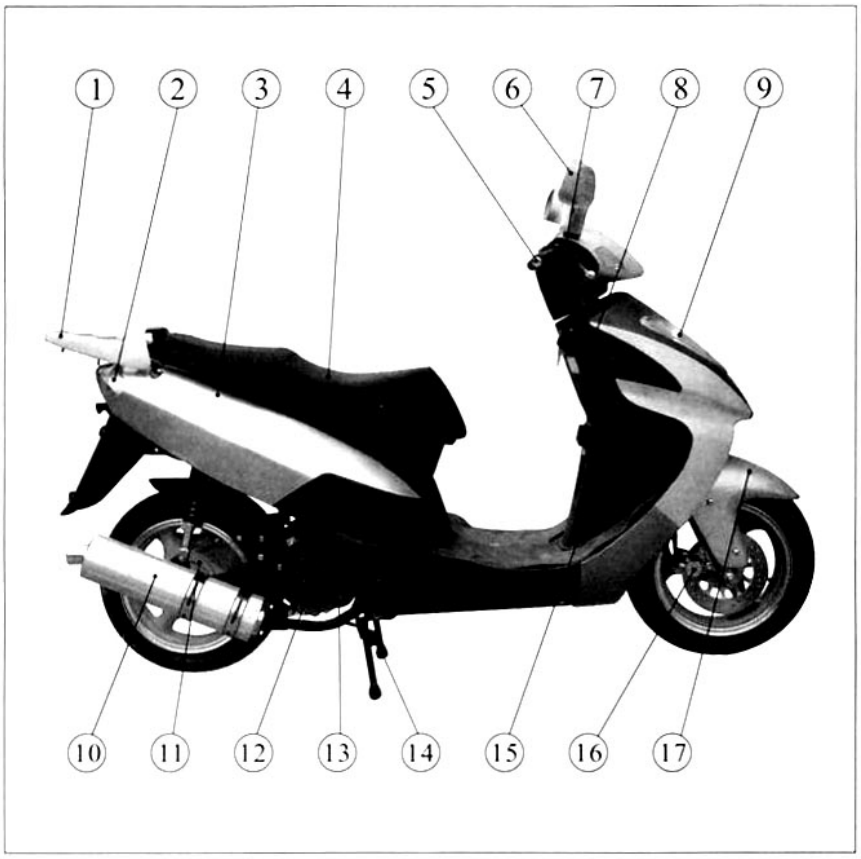
. Luggage must be fixed

. Performance and steadiness of loading are different from not loading

. Luggage must be fixed with rubber strip or rope

Weight of luggage is limit to the simulated amount.





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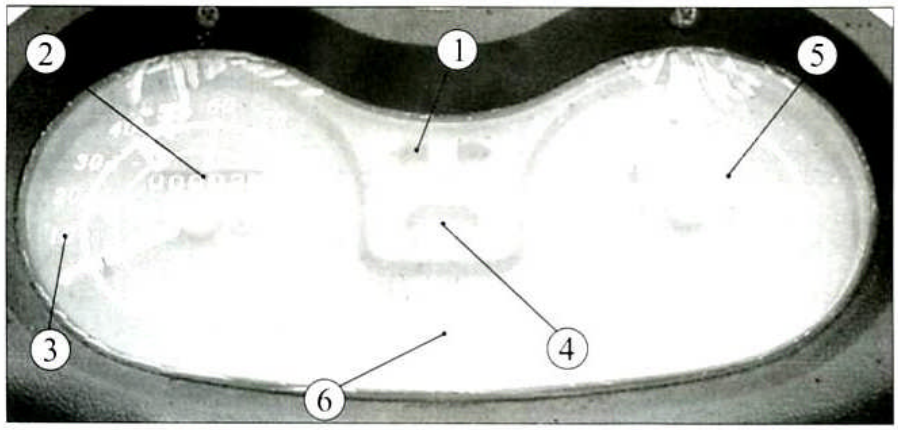
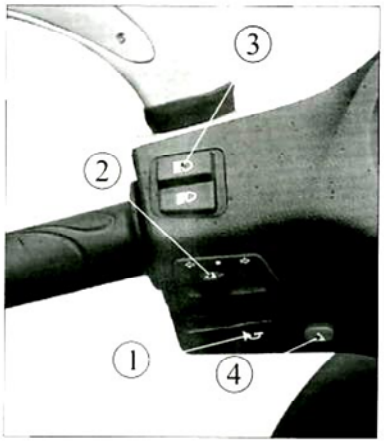
1) Rear Carrier
2) Rear Light
3) Engine Oil Tank
4) Seat
5) Speed Controller
6) Rear View Mirror
7) Brake Oil Tank
8) Front Box
9) Headlight
10) Exhaust Pipe
11) Drum Brake
12) Magnet
13) Passenger Stirrup
14) Side stand
15) Front Bag
16) Disc Brake
17) Front mid gaurd

1) Horn switch
2) Rear Head Break
3) Rearview left mirror
4) Instrument Pannel
5) Rearview Right Mirror
6) Front Hand Break
7) Speed Controller
8) Electrical Starter Switch



1) Turning Indicator
2) Odometer
3) Speedometer
4) Farsighted indicator
5) Fuel Warning Indicator
6) Alarm Indicator.

Left turning indicator	Flashes when left turning signal is ON
Odomenter	Indicates the distance covered in kilometers (totally)
Speedometer	Speed is indicated with kilometers/hr
Right turning indicator	Flashes when right turning signal is ON
Farsighted indicator	Lights up when farsighted light is on position
Fuel indicator	Shows fuel level in the tank
Alarm indicator	Flashes when alarm is active



LEFT HANDLE

1) Horn switch

. Pressing the switch horn switch rings

2) Switch for direction light

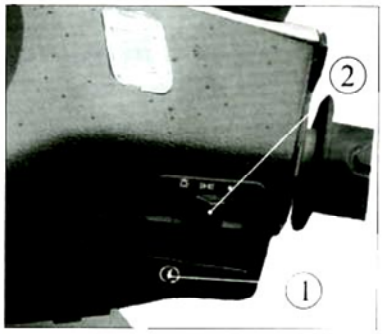
. Slide switch left to turn left. Slide switch to the right when turning right ang push in the switch and the light will be shut

3) Changing light switch

- Distant light- Switch to, light of head light goes upward
- Near light-Switch to, light of head light goes downward.

4) Flashers switch

. Pressing the switch, indicates which signal is flashing, right and left



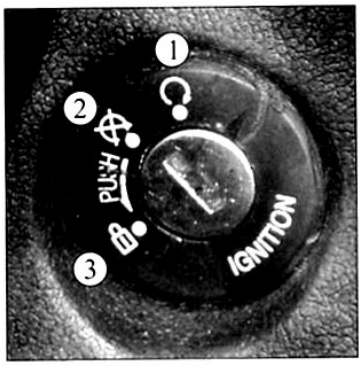
RIGHT HANDLE

1) Electrical stsrter switch

. Press electrical starter switch, limit time of pressing electrical switch is 5 seconds, if engine does not turn on try again within a gap of 30 seconds

2) Lights

. Slide switch to left up to first level and quarters will trun on. Slide once more to next level an full lights will turn on



Rotation of key is used to control opening and closing of the circuity.

Warning:
Donot use key during driving

Adivice:
If the engine is not working, please close the main switch, unless which can cause battery drain or damage.

1. ON (opening)

Engine can be started
Switch lights on work noemally
Horns works

keys cannot be dropped out

2. OFF (closing)

Engine is stopped
Lights cannot be used
Horn not working
Engine will not stsrt

keys can be dropped out

3. LOCK

Direction lock is locked
lights can not be used
Horn will not work

Keys can be dropped out.

OPERATION

LOCK

Please lock your direction lock when leaving your vehicle

1. Please turn handle bar to the limit position

2. Press tightly key and turn key from position OFF to the position lock

3. Draw the key out

Advice:
Please try turning the handle bar to ensure the vehicle to be locked

How to open direction lock

1. Push in the key to position OFF.

SEAT LOCK

Opening and closing of seat lock

1. Push in key and turn to left to open the seat lock

2. Lift the bottom of seat and open it

Drop seat, press it lightly and then you can lock the seat

Advice:
Lift seat lightly to ensure the seat is locked.

LUGGAGE BOX

1. Before using luggage box, please open the seat

2. Open seat an you will find the luggage box which can hold 10kg

Operation manual and other documents can be put there.

Attention:
Food easily affected by temperature and combustible materials cannot be put in luggage box for high temperature or engine heat and sunshine.

Advice:
Do not put expensive goods in luggage box when leaving vehicle

Water may enter luggage box in rainy days or vehicle being washed, if so, more attention should be paid to the expensive goods if you put them in.

FRONT BAG

Front bag can hold goods about 1.5kg

How to use front bag
1. Push in key , and turn to left to open lock buckle

2. Open bag

3. Please make use of the rubber strip rope or button.

FUEL TANK

1. Push in key and turn to left to open the seat lock

2. Turn cap, fuel tank to left and drop it out

3. Add Uneleaded fuel to it

4. Drop seat, press it lightly and then you can losk the seat.

TANK CAPACITY
6.0lts.

Warning:
. Fuel is combustible material and can cause fire under some conditions

. When loading fuel, should be in ventilated areas and with engine OFF

. Avoid skin cantact, inhaling or ingestion with fuel.

BEFORE STARTING THE ENGINE

. Check whether fuel and oil are enough

. Set the kick leveler (main support)

. Driver must dtand on the left of the vehicle.

Do not star engine in airless or airtight room for waste was incluiding poisonous elements which can cause death.

WHEN STARTING THE ENGINE

1. Turn the switch to ON position

2. Nip the rear brake lever

3. Hold steering hanle and then press electric starter switch

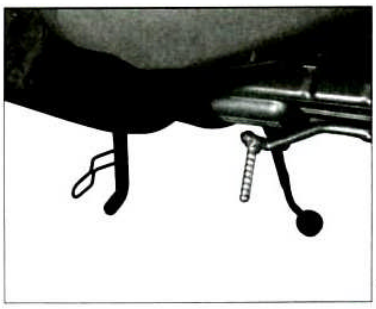
4. Do not make any rushing out with cold engine, it is recommended to warm it out, driving at a limited speed during the first kilometers of the ride.

USE KICK STARTER ENGINE

1. Turn main switch to ON position

2. Step on the kick starter lever for ably.

Advice:
Turn the kick starter lever back after starting engine.



HOW TO RIDE

1. Turn main support back.
Nip the rear brake with left hand and grasp support handle with right hand, and then push the vehicle forward so as to turn main support back

Advice:
In ordre to turn main support back, do not grasp seat.

2. Satride the vehicle.
Hold the handle bar with both hands, stride the vehicle from left side. Sit straightly and your left foot can not be of the ground

3. If driving with passenger open back stirrup, if not keep them closed.

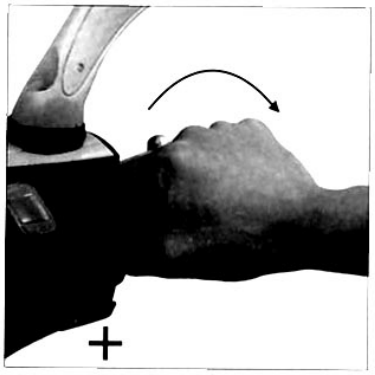
Caution:
In order to prevent it from rushing out, please nip the rear brake till the vehicle starts.
Do not increase the engine speed without any reason before riding.

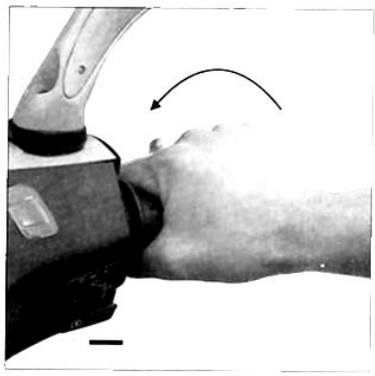
4. Loosen the rear brake, rotate the steering handle slowly, and then the vehicle will begin to work.

SPEED ADJUSTMENT

Use steering handle to adjust speed

1. To the driver:
Speed is more and more faster to the driver
2. Against the driver:
Speed is more and more slower against the driver.



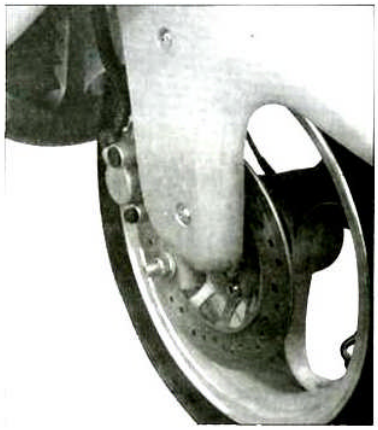


BRAKE SYSTEM

Please loosen steering bar in advance, and then hold front and rear brake bar tightly.

Hold front and rear brake gradually is the proper way to operate.

If needed to brake during up hill, use both hands, do not try to maintain by speeding or damage will be caused.



Warning:
You should brake early in dump ground snowy ground or frozen ground where more time is needed than in dry ground

Do not brake constantly during long downhill or damage will be caused. Check Brake oil level constantly.

PARKING

- Do not lean your motorcycle on walls
- Stand your motorcycle on steady floor
- Do not leave your motorcycle without surveillance, not with engine ON, nor with key on
- Do not sit on your motorcycle while leaning on main support
- Avoid touching any components that may be hot.

RUNNING

The motor running is fundamental to long lasting warranty and right operation of your motorcycle

0 - 100Kms

. For the first 100km, operation with caution on the brake and avoid using your brakes rushing out anf at prolonged time.
This will permit optimum operation

0 - 500Kms.

. For the first 500km, Do not drive your motorcycle faster than 80% of the limit shown.

. Do not keep constant speed during long ridings at highways

After 1000Kms.

. Speed up gradually your motorcycle until maximum performance has been reached.

IDENTIFY YOUR MOTORCYCLE

We recommend to write down motor number, frame number and grand in the space below for a better control of your motorcycle

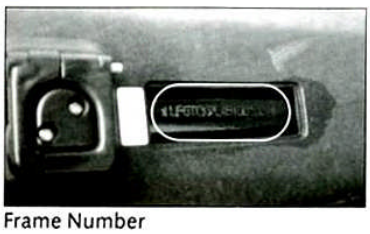
Engine Number

_____

Frame Number

_____

Engine Number



Frame Number

Regular check is necessary for using your motorcycle properly and preventing from accident

Daily Check
Always remember to check your motorcycle carefully before everyday riding

Regular Check
Take an overall check once half a year for better using performance

Warning:
. Breakdown or accident may happen for lacking of regular checks

. Regular check is required even if the motorcycle is lying idle

. It is of great importance to check your motorcycle after longtime of lying aside

. Check more frequently if motorcycle is being used under rainy or dusty conditions

. We recommend difficult checks to be held at local or nearest service center.

DAILY CHECK

Brake System
. Appropriate handle stroke and sensitive brake system

Tires
. No crackle or damage

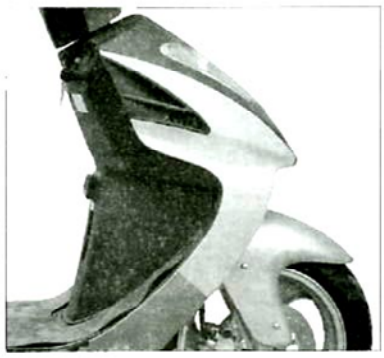
. No anormal abrasion

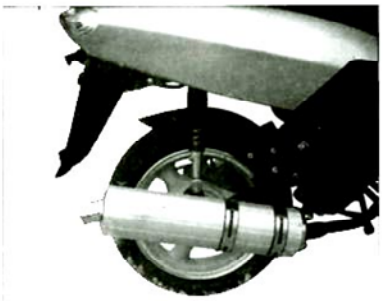
. Proper depth of tire carving.

Motor Engine
. Enough engine oil

. Check if it run normally or any noise rising

. Check if it works well during speed accelerating and decelerating.



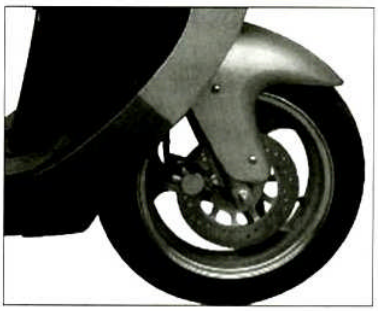


Here we only introduce some simple ways of checking and adjusting your motorcycle

BRAKES

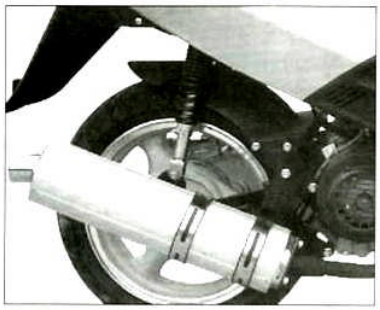
. Disk brake checking

. Check from the backside of brake fixture if the disk abrasion reaches to the limits replace the two disks with new ones.



. Brake oil Replenishing

If brake oil level is lower than the limit replenish with brake oil DOT3 or DOT4.



. Pinch rear brake handle till resistance comes up, measure if the further stroke is in the stated range

. Adjust the stroke by turning the regulating nut right to increase the travel distance and decrease it by turning left.

Caution:

. Do not use brake oil with inferior quality

. Keep brake oil away from cohering on the coating to avoid fading and chapping

Caution:

. Be sure to keep the foreae of the adjusting nut contact perfectly with the pillar surface of the pin.

Advice:

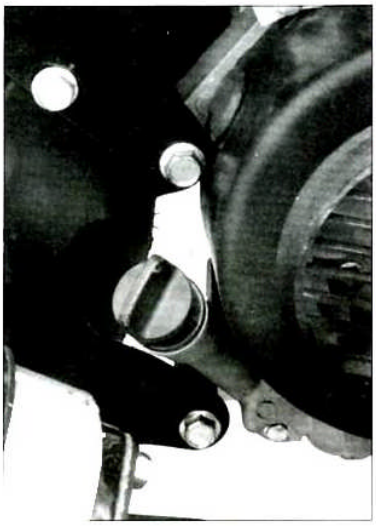
. Check the travel distance of the grip again after adjustment

. Hold the brake grip tightly to check if the prolongation of indicating line falls in the specified brake limit.

ENGINE OIL

For checking oil level

1. Keep the motorcycle on main stand on leveled ground
2. Remove oil level gauge, oil should be between Maximum and Minimum lvel.
3. Add specified oil if required.
4. Check engine oil level periodically.



Caution:

. Adopting of improper engine oil or oil with low quality may cause damage the engine.

. Use main stand at a flat ground

. Remember to change engine oil regularly

. Engine oil replacement

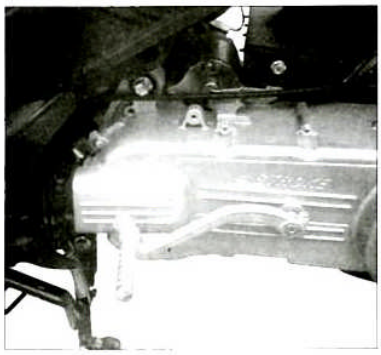
1. remove drain screw of oil cap

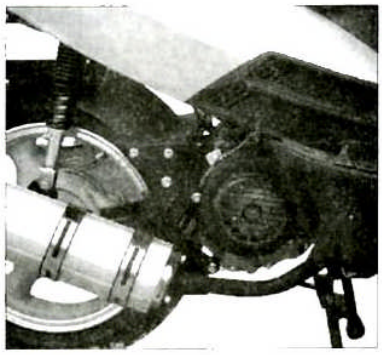
2. It is easier to drain the remains of the gearbox when the engine is warm

3. Tighten drain screw

4. Pour proper quantity of oil slowly into the gear box

5. Tighten the oil plug after fulfilling.





AIR FILTER

Cleaning air filter must be done after every 1000kms, according to use

If using motorcycle under dusty or wet conditions should cleaning be more frequently.

Remove the cover of the air filter.

. Removal

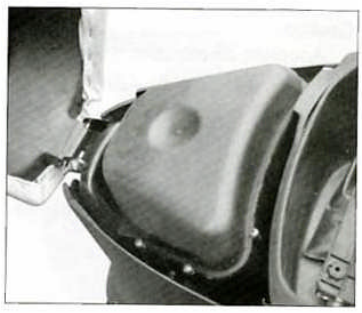
1. Keep motorcycle over main stand

2. Loosed five screws to remove the cover of the air filter

3. Clean filter with dissolvent and let it dry

4. Put wick into clean engine oil

5. Fix Wick and the shell.



Caution:

. Remember to replace the wick if it is worn out

. Improper fixing of the wick may cause dust into engine, by which engine performance and usage life may be affected.

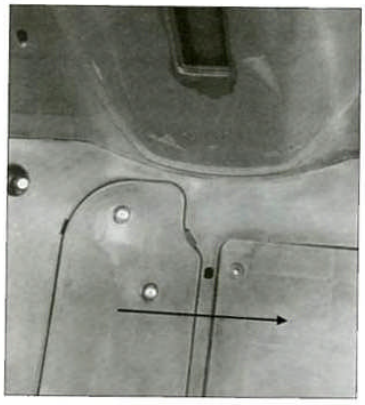
BATTERY

Check the electrolyte of the battery every 1000kms.

. Verifying your battery

1. Make sure starter switch is OFF

2. Replenish the electrolyte of the battery timely except for the sealed on which needed no inspect.



Caution:

. Avoid splash fluid

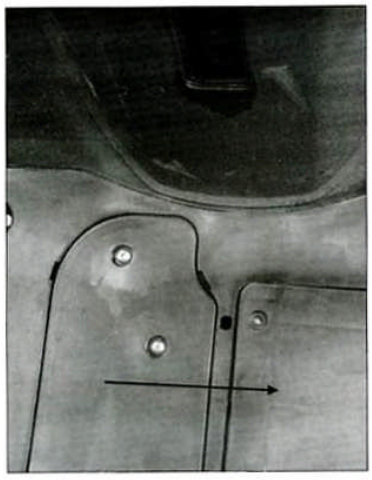
. Do remember not to remove the sealing plug of the battery.

FUSE

If any electrical component is not working or is working improperly or the engine does not turn on, check your motorcycle fuse.

Fuse Checking

1. Check fuse out of case, replace if damage.



Warning:

. Do not apply fuse with improper capacity

Caution:

. Replace the electrical appliances with original brand or other specified products, by which the performance of battery will be assured

. Do not rinse the surrounding part of fuse as strongly

Advice:

If the fuse is out of order just after replacement, go to a Vento service center immediately.

RINSE

Regular rinse is of importance to extend the usage life of your motorcycle

1. Sweep the dirt with cloth while rinse

2. Adopt neutral detergent and wash the motorcycle with water to get rid of dirt difficult to clean

3. Dry the remaining water with clean and soft rag.

Advice:

We recommend our users to apply mixed wax and pay attention to scrub the painting and plastic parts softly to prevent spot.

Caution:

. Do remember to clean the motorcycle after engine cooled.

. Keep water out of the muffler air-cleaner and electrical appliance to prevent rust

. Please rid carefully and slowly after washing your motorcycle by which brake performance may be affected.

It will return to normality after drying out

STORAGE

Caution :
Shield the engine and muffler with dust guard after the surface is cool.

Advice:
Please pay high attention to the following after long time of storage

1. It is of great importance to wax all parts to prevent rust

2. To preserve the battery and reduce leakage of electricity, please take out the battery and put it at a ventilating place without exposing to light or keep it inside with negative electrode cutting off

3. Do remember to drain off al the oil of the carburetor to prevent rust.

AFTER INACTIVITY

. Rinse your motorcycle

. Check battery charge and re-charge if needed

. Check oil and fuel levels

. Use a complete check out before using

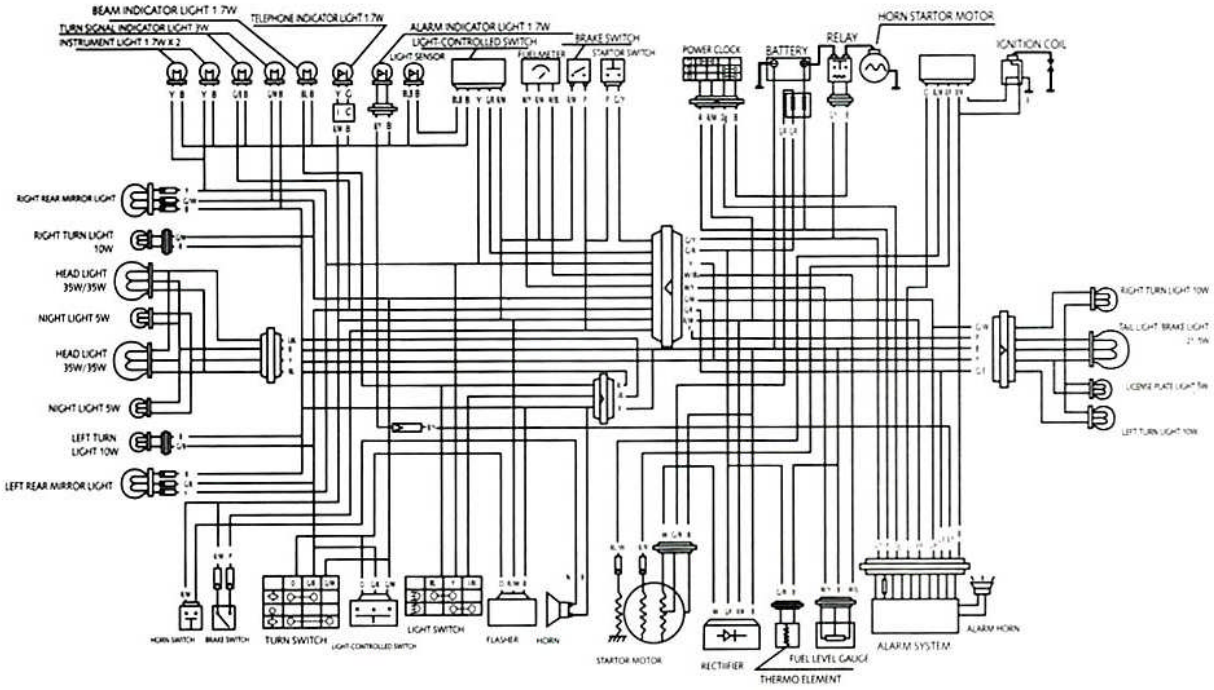
Caution:
Test your motorcycle at moderate speed.

Free travel of R.R.	
Brake Grip	15-25mm
Tire size front	130/60-13
Tire size rear	130/60-13
Sparkle Plug Type	A7RTC/NHSP/LD021
Sparkle Plug Clearance	0.6-0.8mm
Battery Capacity	12V-6AH/YUASA/YTX7A-BS
Headlight Far Near	12V/18W
Brake Tall Light	12V/15W
Turning Light	12V/10W
Fuse	8Amp

Type	LB150T-12
Displacement	149.6cc
Cylinders	1
Cooling System	Air Cooled
Running Diameter	52.4X57.8mm
Max. Power	9.38Hp/7500rpm
Max. Torque	0.86Kgmf/5000rpm
Starting System	Electric
Starter Style	CDI
Clutch Type	Automatic, Centrifugal
Gear Shift	Automatic
Length	1970mm
Width	690mm
Height	1120mm
Seat	790mm
Dead weight	115Kg
Passenger allowed	Two
Suspension	Hydraulic
Front Brake	Disc

Rear Brake	Drum
Front Tire	130/60-13
Rear Tire	130/60-13
Fuel Tank Capacity	6.0Lts
Engine Oil Tank Capacity	1.0Lt

YMOTO ELECTRICITY PRINCIPLE DIAGRAM



B	R	G	Y	N	P	BL	LBL	Y/R	B/R	G/Y	G/R	W/BL
BLACK	RED	GREEN	YELLOW	BROWN	PURPLE	BLUE	LIGHT BLUE	YELLOW/RED	BLACK/RED	GREEN/YELLOW	GREEN/R	WHITE/BLUE
O/BL	Gr	W	B/Y	LBL	G/B	G/W	O/BL	N/BL	Dg	N/B	R/W	W/Y
ORENGE/BLUE	GRAY	WHITE	BLACK/YELLOW	LIGHT BLUE	GREEN/BLACK	GREEN/WHITE	ORENGE/BLUE	BROWN/BLUE	GARK GREEN	BROWN/BLACK	RED/WHTIE	WHTIE/YELLOW