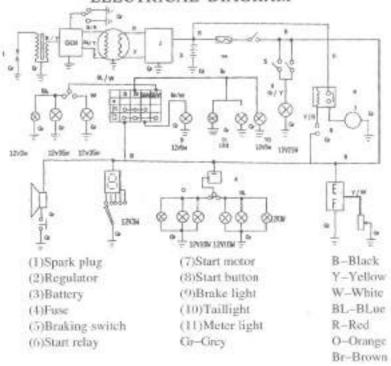
ELECTRICAL DIAGRAM



DB-03 150CC OPERATIONAL INSTRUCTION

FOREWORD

Thank you for your purchasing this motorcycle.

This manual covers the main data, basic structure, and main procedures of operation, adjustment, maintenance and troubleshooting of this motorcycle. It will help you familiarize yourself 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 notici.



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SAFE DRIVE

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 anybody 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 overspeed 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

Protective wear such as helmet with protective mask. dustproof glasses and gloves should be worn
duffing drive for the sake of personal safety.

The passenger should wear hight hoots or long clothes to protect legs from burt by the heated exhaust silencer during ride.

Loose clothes are not suitable for motorcycle drive or ride as they may get caught on the operating lever, kick lever, 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

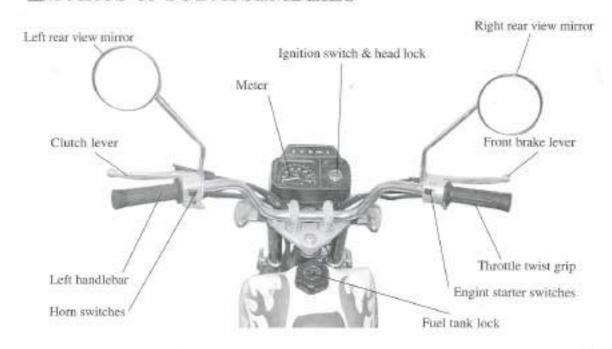
Caution:

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.

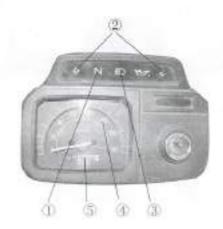
MAIN DATA

Overall length 1910mm		Cylinder bore × stroke	52.4 × 55.5		
Overall width	685m	Compression ratio	9.5: 1 6.4KW8000r/min		
Overall height	1100mm	Output,max.			
Wheelbase	1220mm	Torque,max	8N · m/5500-6000r/min		
Dead weight	104kg	Idling speed	1500r/min ± 150r/min		
Payload	150kg	Displacement of cylinder	144ml		
Front wheel	2.5-17	Spark plug	A7TC		
Rear wheel	2.75-17	Spark plug gap	0.6-0.7mm		
Speed, max	≥ 80km/h	Cap of air Valve	Intake valve: 0,05mm		
Brake distance	≤ 7m(30km/h)	Cap of all valve	Exhause valve: 0.05mm		
Climbability	≥ 20°				

Ⅲ.PARTS & SUBASSEMBLIES



Ser.No	Name	Description
0	Speedometer	In km/h
(2)	Tum indicator	The left indicator is lit up when the turnlight is so the left and the right one lit up as the latter to the right.
(3)	Neutral indicator	It is lit up when in the neutral position.
(4)	Odometer	It shows the total accumulated mileage already covered by the vehicle
(5)	Trip mileometer	It shows the mileage of trip.





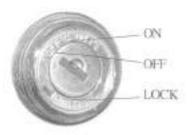


IV. OPERATION

Ignition Switch

* Ignition switch

Positron	Function	Remarks	
OFF	To stop the vehicle (switching of all circuits)	Thiskeyrandore- moved voltakes	
5.0.74		ng or driving the vote. The keep ancest agail frames around 1 becomes de-	
LOCK	In lock the steering handle	The key can be taken out	



Fuel Cock

D 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.

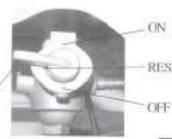
OFF: With the handle of the fuel cock

Fuel cock handle

to "OFF" position, the fuel circuit is cut off without supply.

RES; With the hundle of the fuel cock to RES position, the fuel is supplied from the reserve.

(Note: The reserved fuel can only be used when the norms' upply is run out.) In this case, refueling should be carried out as soon as possible, for there is only some 0.81, of fuel reserve for use.



Engine Starting

(i) Set the key of the ignition switch to "ON" position.

② Ascertain the neutral position, where it should be displayed.

(3) Ascertain the amount of fuel in the tank.

(4) Set the fuel cock handle to "ON" position.

★To start a cold engine:

 Pull up the choke bar of the carbaretor to " A"(fully close) position.

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 has 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(especialy at a high speed) is harmful to the engine.

★ Procedures of stopping engine:

 Release the throttle twist grip to slow down the engine.

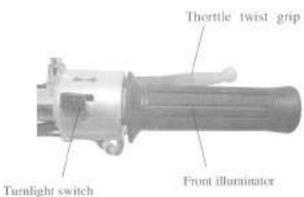
2) Turn to the neutral position.

(3) Set the ignition switch key to "OFF" position.

③ Set the fuel cock(the fuel tank valve) handle to "OFF" position.

Switches on Right Handlebar

- 1 Tamlight switch
 - +-Position, Left
 - →Position, Right



Switches on Left Handlebar

- 1 Light changing switch
- =) position, Headlight is in high beam.
- 2 Horn button

press this button to hom.

Overtaking Light
 Press this button For passing action.



Gear Shifting

Warm up the engine for normal runing.

- 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 start.
- 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.



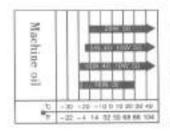
Shifting backward?

V. Check_ups, Adjustments and Maintenance

Machine Oil Checking

*The vehicle should be checked for muchine 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 orilice.

★ High quality 4_ptroke machine oil, as Class SE or SD in API classification, of SAE 15W_40QE in viscusity 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.





Renewal of Machine oil

Machine sil plays a very important role in the annual operation of the engine and for that reason, it is necessary to check the motorcycle for machine sil periodically and renew the oil once every 800—1, 000 km of drive by the following procedures.

Remove the sview plug from the hottom 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 engine for idle running 2 – 3 minutes.

Let the engine stop for 2-3 minutes, and obeck to see whether the oil level is in between the apper and lower lines of the oil gauge.

Do not use any machine lil 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.
 - 3 Fill in the required oil.
- * This job should not be done by any untrained persons but shall be done at an authorized service center.



Screw plug for oil draining



0.6-0.7mm

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.
- The spark plug of the designated type should be used.

The applicable type of spark plug as falloning:

ATTC

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

Caution:

The air filter element for use must be intact or the engine will suck in dust and dirt, resulting in a shorter service life of the engine.

Wather should be prevented from entering into the fil



Collar clamp

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 the required free operating movement.

The required free operating movement; 2_6mm.

If the grip can not be so moved freely, turn the adjusting out 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.



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; 1,500 ± 150r/min



Idling speed adjusting screw

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 born of the valve and output drop. Therefore, the air valve gap must be checked periodically.

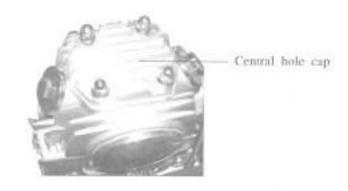
The gap of the sir valve abould be inspected and adjusted with a cold engine by the following procedures:

- (I) Remove the caps of the central bole and the top bele (the ignition timing observation bole) in the left crunkcase cover.
 - (2) Remove the caps of the two air valves on the cylinder head.
- The flying wheel clockwise until the engraved "T" mark on the flying wheel aligns with the engraved line on the top of the crunkouse cover. Swing the rocking arm slightly. A loose rocking arm (which indirates the existence of clearance) shows that the piston is in the upper stop position of the compressing stroke, where the valve can be adjusted. A tight rocking arm means that the piston is in the lower stop position of the compressing stroke, where the valve can be adjusted. A tight rocking arm means that the piston is 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 series and the end of the valve.

The specified air valve gap; 0, 05mm for the intake and exhaust valves respectively.

The adjustment needed, loosen the locking nut of the valve, turn the adjusting nut till a slight existance 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 dismounted 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 10 - 20mm 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 to be made to a great extent, turn the clutch adjusting screw stud on the right crankcase.

Is tart the 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

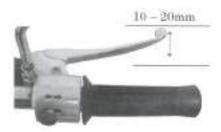
(1) Pull up the front and rear brakes respectively and check for wear of the brake shoes. If the mark "A"on the brake drum cover aligns with that A" on the brake cam, it means that the brake shoes are already worn to the limit and have to be (2) Replacement should becarried out at a designated service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

Adjustment of Front Brake

- (1) The front brake lever has a free operating movement of 10 - 20 mm 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 out 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.





Drum brake

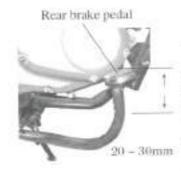
Drum brake assy

Adjustment of Rear Brake

- * The vehicle should be supported by the main stand for check.
- The rest basks perial has a free opcusting 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 abould be aligned with the pin of the brake arm.

Caution:

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



Adjusting nut Rear brake arm



Brake pull rod

Brake arm pin

Adjustment of Chain

- ★ Check the chain for wear, tension and lutrication.
- (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 10,20 nm.
- (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 odjusting nat.
 - (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 se position is concerned.



Rear wheel axle nut

Bear axle

Braking light switch Adjusting nut



Braking light switch spring

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 out.
- ★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 Checking

- 1) Open the right side cover-
- Clean away dust and corrosive from the surface of the battery.
- 3 Set the relicle 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 curreded conductor connectors of the battery shall be replaced.

Caution:

To dismardle loatery, disconnect, the negative (-) electrode before the positive(+) one, and vice versa in installation. Ensure against my corract of the positive(+) electrode with the vehicle body.

Never have the electralste level come over the

upper mark line when adding distilled water. Otherwise overflow and comsion will occur-

The electrolyte contains suborieacid and will cause serious burt to skin and eyes by contact. In case of contact with it, wash it off for 5 minutes and see a doctor immediately.

Foreign matter should be prevented from extering into the batter)

Negative(-) Positive(+)
connector cumector



Upper electrolyte level line

during dismounting 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 covers remove the fuse holder on the side of the battery and replace the fuse tubes

If the new fase 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 TOA

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 colth 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 matorcycle to be stored for a long period of time, attention should be paid to the prevention of moisture, sanishing and rain attack is order to protect it from unnecessary damage. Special check—ups should be carried out on those important parts and subassemblies before storage.

- (I) Change lubricating oil.
- 2 Grosse the chain.
- (3) Drain off fuel from the fuel tank and curburetur! 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 anticust solution into the fuel tank, followed by closing the tank with the cover.

Cautions

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 labricating 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 is suggested that the battery be charged once a month.
- (i) Clean the vehicle, spray the colored part with color fastening agent and apply antirust oil to the part vulnerable to max.
 - (7) Inflate the tyre as required and pad the relacle up with the two wheels clear of the ground.
 - ② 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 service for over 4months.
 - (2) Charge the battery and remount it.
 - (3) Drain off the antirust solution from the fuel tank, followed by filling fuel therein to the required level.
 - Prior to driving test the vehicle at low speed in a safe place.

Maintenance Routine Diagram

"I" means; Check, cleaning, adjustment, lubrication 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 maintennace should be carried out at a service center. It may be also done by the user himself with reference to this manual provided be has special tools, sparts and is capable of this job.

"* * " menus: This item can only be carried out by the servicemun at Kington service center in order to ensure safety.

Notes: 1. Maintenance should be conducted more frequently when the motorcycle, drives in dusty areas.

When the rend - out of the adometer exceeds the maximum figures specified in the table, maintenance should be still cycled according to the interval of mileage stated herein.

-	Emquiney	And the second second		-0	Idometer km Net	e 2)	14/10/17
Item of Maintenance		item/Frequebca	10005at	4000km	1000km;	:12000km	Remark
*	Cinnet of feel system			- 1	1	1	
	Fuel filter		C	- 5		C .	
	Tiestile operating system		1	1	1		
+	Choice of starburston			1	1	1	
	Air filter element	R - yearly		C	C	C	
	Spark ping	H - yearly	1	T	1	11	
	Air rules gag		1	1	1	1	
	Air valve gay				1		
	Engine labricating oil		B	One replacement every 2000kg		000km	
	Libraring oil senses	Mumbly		- 6	C	C	
+	Totalion of obtain		A	Δ.	A	A.	
+	Iding speed of curbantur			1	1:	1.	
	Delving chases	R - dyese		1,1 even 50		ini .	
	Holtety	100,000	1	1	1		
	Wear of broke shoot	r-2year		1	4	1	
	Rear limbing system		1	1	1		70000000000000000000000000000000000000
8:8	Broking Squid bose			1			also for disc style
.	Cup of Smiking liquid	1	- 1	1	1	1	
4.4	Beahing liquid		One replacement energy two year:				
++	From broking system		1	1	1	1	
*	Bear braking light weigh		- 1	1.	1	1	
	Light changing of handlight		- 1	1	1		
-	Clutch				1	1.	
	Side state!		7.7.7.1	1	1	1	
. 2	Supranoc		1		1	J.	
8	Nata, holts & other fasteners.			1	1	1.	
	Wheel/quikes		1	1	1	1	
	Bearing of strering hundle				1	1 1	