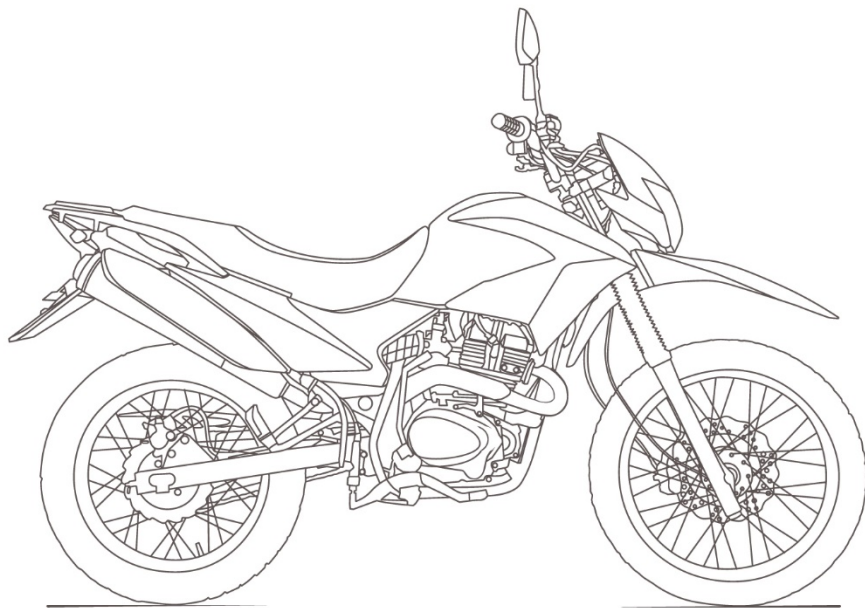


TX150

USER MANUAL



KEEWAY

FORWARD

Thank you for choosing TX150 motorcycle

This manual introduces the proper operation and maintenance of this motorcycle. It will help to ensure maximum work life, safety and work performance .The dealers will supply you with best technical guidelines and after-sales service.

All information, pictures and specifications in this manual are based on the latest product information available at the time of publication. There may be some discrepancies in this manual because of improvements or other changes. We reserve the right to make changes at any time.

We sincerely wish you give us advice in terms of design, production and quality of this motorcycle.

- Please read this manual carefully. It may cause damage to parts if operating this motorcycle not in accordance with instructions shown in this manual.

- Loading capacity

This motorcycle capacity is one rider and one passenger. The max loading capacity is 150kg.

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SAFE RIDING RECOMMENDATION

FOR MOTORCYCLE RIDERS

Motorcycle riding requires that some extra precautions be taken to ensure the safety of the rider and passenger. Please make inspection before riding. Specific items to check are listed in the INSPECTION BEFORE RIDING section of manual.

▲SAFE RIDING

1. Failure to inspect this motorcycle carefully before riding may lead to damaging the parts and traffic accident.
2. Don't allow anyone to operate this motorcycle without license.
3. To avoid collision with other vehicles, note the followings while riding.
 - Choose superior quality clothing in terms of riding of motorcycle.
 - Operate signal equipment accurately.
 - Riding this motorcycle at excessive speed will lead to losing control of your motorcycle.
 - Please use the light signals or horn when changing lanes or turning.

- Keep both hands on the hand-grips and both feet on the footrests at all times while riding.

Passenger should keep feet on the rear footrests.

- Be careful on bad weather days. The braking distances will be longer on rainy days.

▲PRECAUTIONS

1. Make sure the rider wears a helmet, eye protection, and protective clothing, as well as the passenger.
2. Don't touch the muffler because it's very hot.

▲LOADING CAPACITY

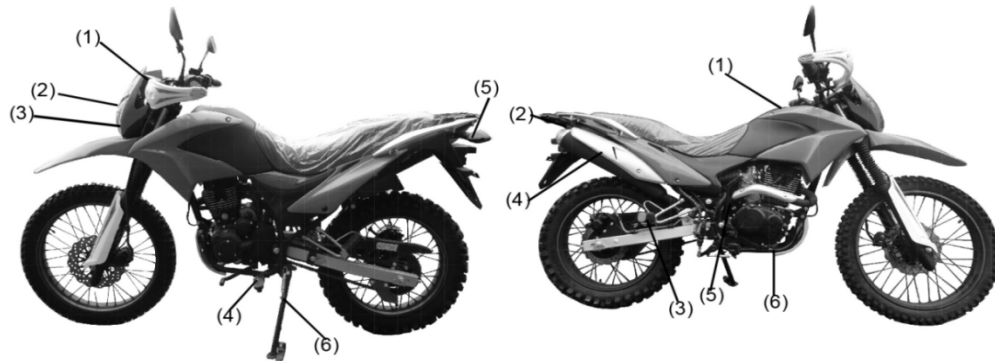
Balance the load capacity between the left and right side of the motorcycle to ensure safety.

1. Please fix the goods as low as possible to ensure stability of this motorcycle.
2. Check and adjust tire pressure according to additional weight and driving condition.

▲MODIFICATION TO THE MOTORCYCLE

1. Modification of parts of this motorcycle is prohibited.
2. Don't offend local traffic rules.

PARTS NAME



(1)Instrument panel	(1)Fuel switch
(2)Front turn light	(2)Tail light
(3)Headlight	(3)Rear footrest
(4)Gearshift lever	(4)Muffler
(5)Rear turn light	(5)Starting lever
(6)Side stand	(6)Brake pedal

SERIAL NUMBER LOCATION

IDENTIFICATION NUMBERS

1	The engine number is stamped on the lower left of the crankcase assembly.	 A close-up photograph of the lower left portion of a motorcycle's crankcase assembly. A metal plate is visible with a stamped engine number. To the left of the plate is a hexagonal bolt head. The background shows various mechanical components of the engine.
2	The VIN NO. is stamped on the upper left of the steering head tube.	 A close-up photograph of the upper left portion of a motorcycle's steering head tube. A metal plate is visible with a stamped VIN number. The background shows various mechanical components of the steering assembly.

▲ PARTS FUNCTIONS:

Digital Meter	
1	Engine tachometer
2	Left turn signal light indicator
3	Remote light indicator
4	Right turn signal light indicator
5	Neutral gear indicator
6	Odometer: record total riding distance
7	Speedometer: indicate the riding speed
8	Oil level indication
9	Function key

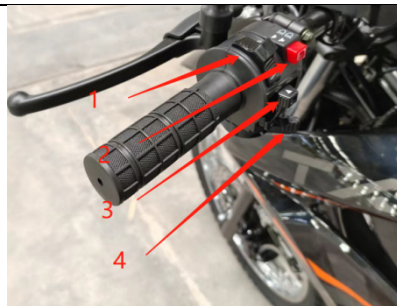
Function button:

Long press the button to enter setting mode (interface would blink several times), then short press the button to switch the display between TOTAL and TRIP.

In the state of TOTAL, long press the button to switch the display between KM/H and MPH.

In the state of TRIP, long press the button to clear the subtotal.

If no operation is performed within 5s, the system will exit and save automatically.



1-Electric start switch	1-Headlight switch
2-Emergency switch	2-Dimmer
3-Throttle	3-Turn signal light switch
	4-Choke switch

Note: Don't continue to press the electric start switch over 5 seconds each time.

Anti-roll protection bracket and engine protection cover (If equipped)

They are made of high strength iron materials. They will effectively protect the engine and the rider.



Engine protection cover



Anti-roll protection bracket

Fuel tank

The volume of the fuel tank $\geq 13\text{L}$, including reserve fuel. Please insert the key and turn it 90° clockwise, the fuel tank cover can be opened. Otherwise, to close fuel tank cover, please align the latch on the fuel tank cover with the groove on the fuel filling neck.

The suitable gasoline is RQ-92 or above. If there is no this type fuel, nonleaded gasoline can be used. Using suitable gasoline can lengthen the work life of the spark plug and engine.

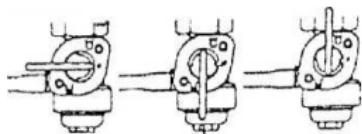


Attention

When filling the fuel, the fuel tank should not be overfilled and the cover should be screwed tightly. The gasoline is a flammable and explosive material. When refueling, the engine must be stopped and operate in a ventilated place. Don't smoke or close to the fire source.

Before filling works, the fuel should be filtered.

Fuel switch



OFF ON RES

There are three switching modes. Please turn the switch to “□” (close) position, the fuel feeding will be stopped. When the motorcycle is going to be parked for a long time, the switch should be kept in this position. When driving, turn the switch to “∪” (open) position, the fuel feeding (the fuel will

flow into the carburetor). Turn the switch to  position, the reserve fuel tank will feed the fuel oil (only when normally feeding is running out, the reserve tank can be used. The volume of the reserve fuel tank is only 1.1L.

Engine oil

The engine oil should be selected and used based on regulation.

(a) New engine additive amount:1100ml

(b) Daily replacement amount:1000ml

This motorcycle is filled with SJ10W/40 oil when it is dispatched from the factory. If you want to change to other type lubricating oil, the quality should reach SJ grade. When you replace the oil, please warm up the engine for several minutes and turn it off. After that drain off all used oil in the crankcase and fill the crankcase with new engine oil.

Tire

Proper tire pressure will provide riding maximum stability.

Please check the tire pressure frequently.

Category	FRONT TIRE	REAR TIRE
Tire size	90/90-19	110/90-17
Tire pressure	225Kpa	280Kpa

NOTE:

Tire pressure should be checked before riding. Check the tires for cuts, embedded nails, or other sharp objects. Check the rims for dents or deformation. See your dealer for change of damaged tires or punctured inner tubes.

WARNING:

- Do not try to patch damaged tire or inner tube.
- Improper tire inflation will cause abnormal tread wear. Under-inflated tires will result in the tire

slipping, or falling off from the rim.

- Operation with excessively worn tires is dangerous and will seriously affect operation.
- If the tire shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a dealer replace the tire immediately.

CBS (Combined Braking System) (If equipped)

This vehicle is equipped with CBS. When the rear brake lever is pulled, the CBS system simultaneously engages the front brake, distributing braking force to both wheels. This enhances braking stability and helps prevent the vehicle from tipping over or skidding by ensuring a more balanced braking effort.

OPERATING GUIDE

Inspection before riding

Before riding the motorcycle, be sure to check. The following items only need some minutes.

- Check engine oil level. Please add engine oil, and check whether it leaks or not.
- Check fuel level. Please add fuel into fuel tank, and check whether it leaks or not.
- Check brake systems. Please check front and rear brake system operating conditions, to regulate the route of free travel.
- Check tire pressure.
- Check storage of battery electrolyte.
- Check the operation of throttle grip and stanza air valve, conjunction of steel cable and free play of the handle, regulate and change if necessary.
- Check that all lights and horns are working normally.
- Check drive chain. Check chain lubricating oil. If it has been seriously worn, it should be changed.
- Check the flexibility and stability of the steering bar.

Starting Engine

WARNING: In order to avoid accident, don't start the engine in a narrow and closed place. Please start the engine in an open and ventilated place.

Turn the fuel cock lever to the "on" position.

Insert the ignition key into ignition switch, turn to “” position.

Put the gearshift lever in neutral. The neutral indicator light (green) will be on.

When the engine is cold, turn the choke lever to ‘close’ position, until the engine work normally, return the choke lever to the beginning position.

WARNING: Don't step the starting lever over forcefully, or it will hurt foot and engine Cover.

Open the throttle grip 1/8~ 1/4, then apply the starter switch or foot starter lever. The choke lever is under the fuel tank, turn the choke lever to complete close when cold start, when the engine begin to work, return the choke lever to the beginning position right now.

WARNING: In the cold place, before starting, twist the ignition switch to ‘OFF’ to close choke lever, then open the throttle.

Engine breaking-in

Within the first 1000Km of a new motorcycle. Don't make the engine bearing too much load, gear speed should not exceed 80% of maximum speed in that gear to avoid fully opening the throttle grip, and choose to change the speed to avoid excessive load on engine bearing.

In the beginning period of braking in the engine, after breaking in, all engine components will be repaired, all adjustments will be restored. It will ensure optimum service life and performance of the engine.

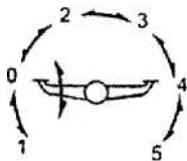
Motorcycle driving

1. After the engine has been warmed up, the motorcycle is ready for riding.
2. While the engine is idling, pull the clutch lever and tread the gearshift pedal to shift into its (low) gear.
3. Slowly release the clutch lever and at the same time gradually increase engine speed by opening the throttle. Coordination of the throttle with clutch lever will assure a smooth and positive start.
4. When the motorcycle attains a steady speed, close the throttle, apply the clutch lever and

shift to 2nd gear by treading the gearshift pedal.

5. Coordinate the throttle with brakes for smooth deceleration.

6. Both front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel, or braking effectiveness will be reduced and control of the motorcycle will be difficult.



CAUTION

Gear shifting with the clutch engaged is forbidden, or damage of the engine, drive chain or other parts may result.

BRAKING

For normal braking, gradually apply both the front and rear brakes while downshifting to suit your road speed. For maximum deceleration, close the throttle and apply the front and rear brakes firmly.

INSPECTION AND REPAIR

Check and replacement of engine oil

Engine oil level check

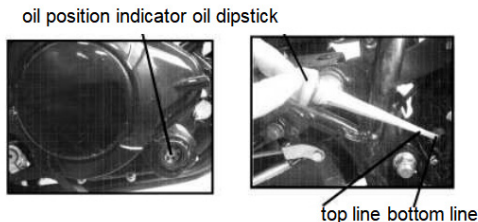
- (1) Stop the engine and hold the motorcycle with center stand vertically in flat surfaces.
- (2) Wait one minute. The level should be between F and L. CAUTION: Inspect the engine oil level through the engine oil level lens.

The engine cannot start with insufficient oil. Refuel engine oil between F and L level. Replace engine oil and engine oil filter.

Drain and replace the used oil in engine after the engine is warmed up. The procedure is as follows.

- (1) Hold the motorcycle vertically with main stand in flat surfaces
- (2) Drain the oil by removing the drain plug located on the bottom of the engine.
- (3) Tighten the drain plug, replenish with new engine oil. Tighten the filler cap. Do not over screw the filler cap. NOTE: Without replacing filter element, 910ml of new oil is enough.
- (4) Start the engine by idling speed for a few minutes.

(5) Stop the engine and wait a minute. Inspect the engine oil level through the engine oil level lens. Make sure that oil level is up to 'F'.

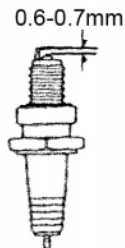


CAUTION: Be sure to use engine oil recommended in the section Replacement of spark plug.

SPARK PLUG Selection

Spark plug recommended: D8RTC

Check and replace



1. Disconnect the spark plug cap from the spark plug.
2. Clean dirt around the spark plug base. Remove the spark plug by using the plug wrench available in the tool kit.
3. Inspect the electrodes and center porcelain for erosion or carbon deposit. If the erosion or deposit is severe, replace the spark plug.
4. Check the spark plug gap using a wire-type feeler gauge.

If adjustment is necessary, bend the side electrode carefully.

The spark plug gap should be 0.6-0.7mm.

Make sure the plug washer is in good condition.

5. With the plug washer attached, thread the spark plug by hand first, and then tighten it up by spark plug wrench.
6. Reinstall the spark plug cap.

CAUTION

The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.

Never use a spark plug with an improper heat range, otherwise, severe engine damage could result.

Clean the air cleaner element

Every 3000Km, at least clean the air cleaner element one time. If you drive your motorcycle in a dusty area, make sure more maintenance.

The authorized dealers will help you decide right maintenance period according to your driving condition.

Check and adjustment of throttle grip operating

Check the turned position on both ends of the throttle grip, whether it returns steadily from full

open position to full closed position.

Check whether the throttle grip free slack is 2~6mm.

Free slack adjustment way is loosening tighten screw, and turn adjusting bolt.

Carburetor idle speed adjustment

Start the engine and let the engine run until it warms up fully.

After engine has warmed up, close the throttle and tighten or loosen the throttle grip stop screw so that the engine can run at 1500r/min. The idle speed increases when the bolt is turned clockwise and decreases when the bolt is turned anti-clockwise.

If the idle adjustment is not good, make sure to adjust the idle bolt once again.

Clutch adjustment

Operate the clutch lever, make the free slack 10~20mm in the tail. To adjust the clutch, please loose the tighten nut, then make the adjustment.

Remove the handlebar dust cover, then adjust like the same way.

Drive chain adjustment

If the drive chain becomes dirty, the drive chain and the sprocket is worn easily. Therefore,

clean the drive chain with solvent and oil each 1,000km with specified lubricating oil or motor oil.

Make the motorcycle stand with main stand, use hand to pull the drive chain, and use hand to press the chain in the middle of the two chain wheel, and examine.

The drive chain tension. Adjust the chain tension to about 10-20mm.

(1) Loosen the rear wheel axle nut. (2) Loosen the chain adjusting nut. (3) Adjust and align each section of chain.



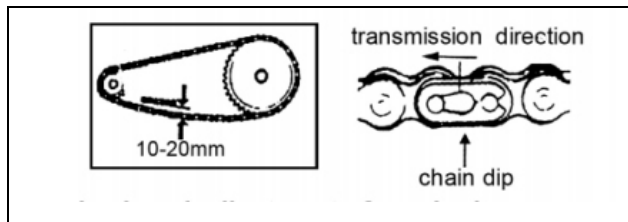
(1) Drive chain

(2) Rear wheel axle nut

(3) Chain adjusting nut
(4) The mark of number

Drive chain lubrication

Remove the chain cap and get the chain, check for wear. If it's damaged, it should be changed. The dusty chain should be cleaned, then lubricate with chain lube or motor oil periodically.



Check and adjustment of rear brake

The free slack of rear brake pedal is 20-30mm, when it needs to be adjusted, please turn the brake lever adjusting screw, the slack decreases when turning right, and increases when turning left.

Check front wheel disc brake

Parking the motorcycle on the ground, check brake pump, brake fluid position of the observe window, if the level is low, make sure to add brake fluid.

Loosen the bolt when adding brake fluid, it is allowed to remove the pump cover.

WARNING: the brake fluid shouldn't over the upper limit, pay attention to keep clean, and don't mix other things.

Check the brake pads

Inspect the front brake pads. If a pad is worn to the grooved limit line, it must be replaced with a new one.

Rear shock absorber

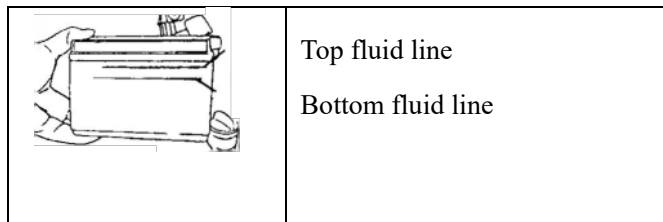
The spring is fixed and not allowed to adjust.

Battery maintenance (For lead-acid battery)

1. Using new battery

1.1: Adding electrolyte: Inspect battery appearance and make sure that there are not cracks.

There is not damages on the battery terminal. Open the plug for filling the electrolyte. The specified electrolyte is stored in a bottle. Open the bottle and connect with plastic hose, and then fill the electrolyte into the battery up to UPPER LEVEL. After filling electrolyte, wait for 20 minutes. Refill to UPPER LEVEL if electrolyte level goes down.



NOTE: Do not overfill electrolyte over the UPPER LEVEL

1.1.4 The motorcycle can be started in 30 minutes after filling electrolyte. It is best to charge the battery for 3 to 5 hours before using as it can ensure maximum performance and extend battery life, especially in winter or kept for a long time.

1.1.5 Fasten plug. Mop up the spilled electrolyte.

1.2 Installation

1.2.1 Connect the battery exhaust hose with battery. Make sure to connect correctly without any damage or it may result in explosion of battery, spilled electrolyte to damage your clothes and motorcycle.

1.2.2 When assembling, (+) positive terminal first (with red mark), then (-) negative terminal.

NOTE: Make sure to install positive and negative terminal correctly. Incorrect installation of the battery will reserve the terminal position resulting in ignition switch and possible regulator/rectifier electrical system damage.

Fasten bolts and add butter or Vaseline on the bolts, nuts and terminals or to prevent them from rusty or poor lead connection.

2. Using and maintenance

2.1 The ignition operation of engine should not exceed than 5 seconds. If the engine cannot be operated after several attempts, check oil supply system, starter and ignition system.

2.2 The following operation will cause the battery self-discharging or insufficient charging to shorten its useful life:

- (1) Starting the engine frequently in a short distance.

(2) Riding this motorcycle at low gear for a long time.

(3) Squeezing brake lever or depressing the rear brake pedal when riding to have brake lamp lit too often.

(4) Installing extra electrical system or replacing excessive power bulb.

2.3 Recharge the battery at once when: hard to start off, lamp light dim and horn not operated.

2.4 Check the electrolyte level every 1-3 months. Replenish electrolyte up to UPPER LEVEL with pure water or distilled water when level is below the LOWER LEVEL.

NOTE: Never overfill electrolyte over the UPPER LEVEL.

Recharge the battery after refill with water.

2.5 When storing for a long time, charge the battery at once and recharge once every month.

2.6 Charge the battery

Charge the battery with original charger. Charge battery indoors where there is well-ventilated.

Keep the battery away from fires.

2.6.1 Two charging methods: Standard charging and fast charging. The standard charging is preferable as it can extend battery life.

Standard charging: electrical current: 0.7-0.8A, time: 5-15 hours.

Fast charging: electrical current: 7-8A; time: almost 30 minutes.

If electrolyte temperature is over 45 °C, stop charging immediately. Recharge battery after it is cooled.

2.6.2 Stop charging when there is much vapor in the battery. Press or fasten the plug and mop up spilled electrolyte.

Notes:

Incorrect using and charging will lead to explosion. Keep the battery away from fires. Make sure to check and install positive and negative terminal correctly to avoid explosion

Electrolyte may be harmful as it contains sulfuric acid. If electrolyte is in contact with skin, eyes and clothes. Please wash them with water, baking soda or vinegar immediately.

Place the electrolyte where children are not likely to touch.

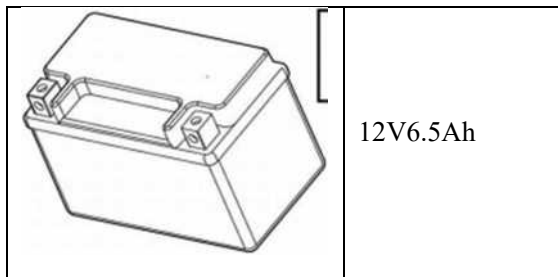
Do not install anti-theft alarm to avoid damage to the electrical system, battery, ignition system or regulator/rectifier.

CHECK THE BATTERY

This model is equipped with a maintenance-free battery. There is no need to check for the electrolyte. Have a dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharged more quickly if the vehicle is equipped with optional electrical accessories.

Warning:

When the engine is not started, do not turn on the electrical equipment in the vehicle for more than 30 minutes.



MAINTENANCE CHART

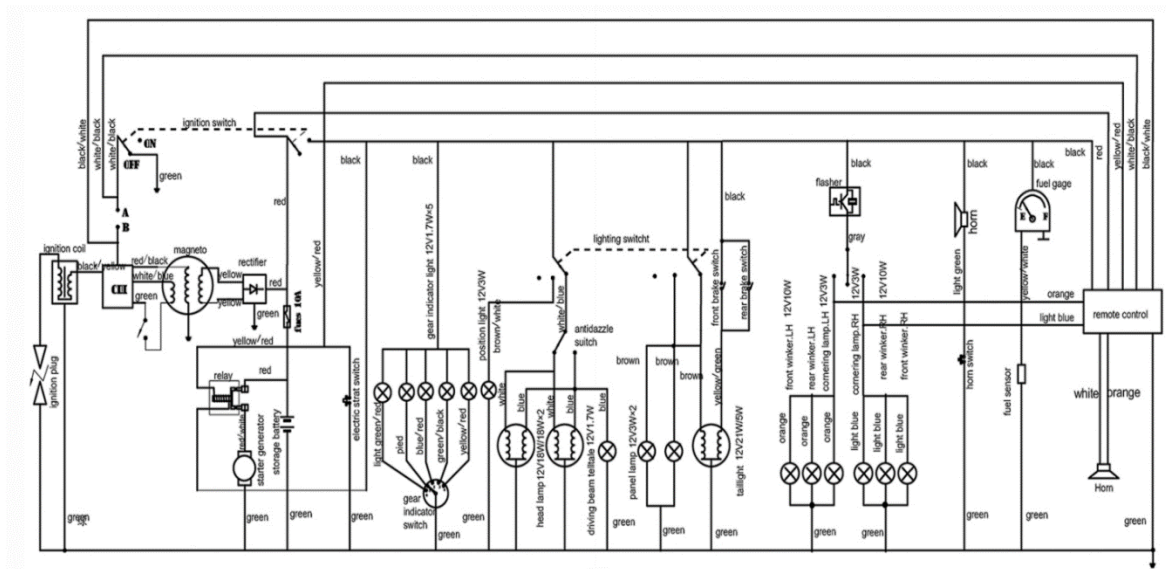
ITEM	CHECKS	ODOMETER READING					
		1000Km	4000Km	7000Km	10000Km	13000Km	16000Km
		New	3 months	6 months	9 months	1 year	15months
Fuel line	• Check fuel hoses for cracks		●		●		
Spark plug	• Check condition.		●		●		
	• Replace			●		●	
Valves	• Check/adjust valve clearance.	●		●		●	
Air filter element	• Inspect/cleaning/replace	●	●	●	●	●	●
Disc brake	• Check operation	●		●		●	
	• Inspect/replace brake pads.			●		●	
Drum brake	• Inspect/replace brake shoes.			●		●	
Wheels	• Wear and damage inspection	●	●	●	●	●	●
Tires	• Check tread depth and damage.	●	●	●	●	●	●
	• Replace if necessary.	●	●	●	●	●	●
	• Check air pressure.	●	●	●	●	●	●
Chassis fasteners	• Make sure that all nuts, bolts and screws are properly tightened	●		●		●	
Front brake lever pivot shaft	• Lubricate with silicone grease.	●	●	●	●	●	●
Drive Chain	• Appropriate tightness • Appropriate lubrication	Per 1000km					

ITEM	CHECKS	ODOMETER READING					
		1000Km New	4000Km 3 months	7000Km 6 months	10000Km 9 months	13000Km 1 year	16000Km 15months
Rear brake lever pivot shaft	• Lubricate with silicone grease.	●	●	●	●	●	●
Side stand	• Check operation.	●	●	●	●	●	●
Main stand	• Lubricate.	●	●	●	●	●	●
Front fork	• Check operation and oil leakage.	●	●	●	●	●	●
Shock absorber	• Check operation and shock absorber for oil leakage.	●	●	●	●	●	●
Engine oil	• Change.	●	●	●	●	●	●
	• Check oil level and vehicle for oil leakage.	●	●	●	●	●	●
Engine oil strainer	• Clean.				●		
Front and rear brake switches	• Check operation.	●	●	●	●	●	●
Moving parts and cables	• Lubricate.	●	●	●	●	●	●
Throttle grip housing and cable	• Check operation and free play.	●	●	●	●	●	●
	• Adjust the throttle cable free play if necessary.	●	●	●	●	●	●
Lights, signals and switches	• Check operation.	●	●	●	●	●	●
	• Adjust headlight beam.	●			●		
NOTICE	More frequent inspection and maintenance are necessary in dusty area. Especially for air filter, it's suggested to do first maintenance in 500KM and clean air filter every 1000KM.						

SPECIFICATIONS

L*W*H (mm)	2040*830*1130	Spark plug (mm)	0.6 - 0.7
Wheelbase (mm)	1360	Valve clearance (mm)	0.05 - 0.07
Ground clearance (mm)	260	Start mode	Electric / kick start
Dry mass (kg)	116	Lubricating method	Pressure splash
Max loading (kg)	150	Lubricating oil capacity(L)	1.1
Max speed (km/h)	85	Tire size(front/rear)	90/90-19 / 110/90-17
Min fuel consumption	2.9L/100KM	Tire pressure(front/rear) (Kpa)	225/280
Brake (front /rear)	disc/disc	Handle bar turning angle	40°
Fuel tank capacity(L)	13	Climbing capacity	23°
Fuel	92#	Primary ratio	4.055
Model of engine	157FMJ	1st gear	2.769
Engine type	4-stroke, 1-cylinder, air-cooling	2nd gear	1.882
Bore*stroke (mm)	57.3*57.8	3rd gear	1.40
Compression ratio	9.3:1	4th gear	1.130
Displacement (ml)	149	5th gear	0.960
Max power (kw/r/min)	8.3kW(8000r/min)	Spark plug	D8RTC
Max torque N.m (r/min)	11.4N.m(6000r/min)	Ignition	C.D.I.
Horn	12V 3A	Headlight bulb	12V 35/35W
Turn light	12V 10W	Front city light	12V 5W
Rear city light	12V 5W	Tail light bulb	12V 21W

ELECTRICAL CIRCUIT DIAGRAM



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