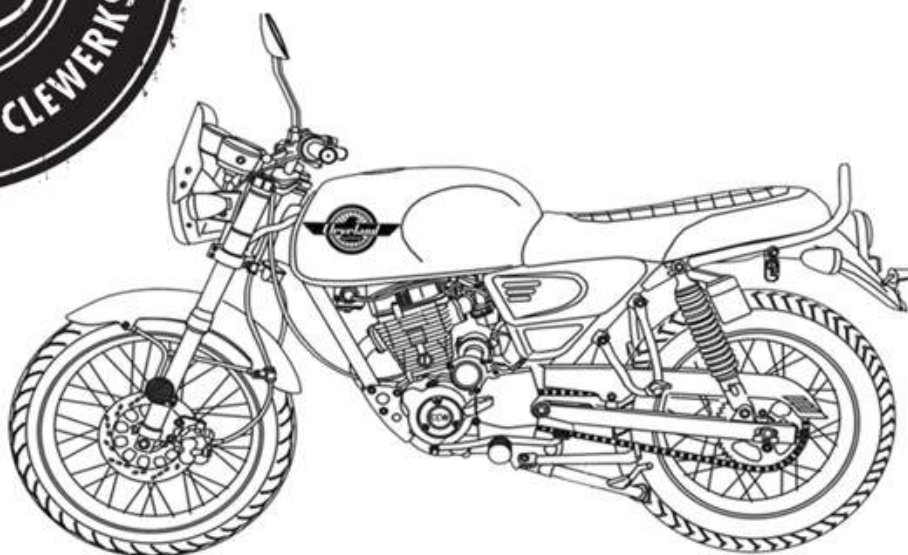


CLEVELAND CYCLEWERKS THA MISFIT / MISFIT 250CC USER MANUAL



8.1.2011 rev 2

DO NOT RIDE IF YOU ARE UNDER THE AGE OF 16.

Always wear all necessary and properly fitting protective equipment when operating this motorcycle.

WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product. This manual contains important safety information and instructions, which should be read carefully before operating this vehicle.

SAVE THIS MANUAL FOR FUTURE REFERENCE

Important Notes

Knowledge relating to motorcycle run-in

An initial run-in of 500 miles is very important for the service life of the motor. Correct run-in during this period can ensure maximum service life and performance. Proper run-in will provide the proper surface engagement for long useful life of the motor's internal parts.

Sufficient run-in ensures a motorcycle's engine and parts can achieve proper performance over the life of the motorcycle. The most important factor in proper run-in procedure is to make sure the motor is not worked too hard or overheated, as if this happens, it can permanently damage the motor's ability to perform properly for the life of the vehicle.

Please refer to the Section “Run-in of New Motorcycle” for detailed run-in method.

Please carefully read this manual and strictly follow relevant rules or descriptions.

Pay special attention to: Warning, Caution, and Notes.

Please carefully read this document and keep for further reference. .

Warning: follow all warnings, safety gear and procedures.

Caution: Follow all operating instructions.

Forward

Thank you for your selection of CCW brand of THA MISFIT motorcycle. We have applied our existing state-of-the-art production technology and equipment for providing for you with novel, luxury and elegant motorcycles with performance reliability when we design, research, develop, and produce this variant. Driving motor is a very exciting sport and ideal for your transportation means, which may make you enjoy yourself in the process of driving. You shall be familiar with all provisions and requirements mentioned in this instruction manual before driving.

This instruction manual overviews correct operation, maintenance, and repair of motorcycle. Follow the under – mentioned specifications which ensure that your motorcycle is always kept in a good condition for a long time of use. The authorized dealers have skilled, trained, and experienced maintenance and repair technicians who may provide for you with best servicing and service.

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Instructions to Users

Instructions to the Motorcycle Driver for Driving Safety

When you are driving, you must make sure to be safe at any time. So, you must follow some of important transportation rules and carry out the six of following provisions.

1. Wear a Safety Helmet

Wearing a safety helmet is the first step of driving safety, which is a very important factor for driving motor. A motorcycle driver must select a high - quality safety helmet for protection. Head injury is one of the most serious traffic accidents. Therefore, you must wear safety helmet and suitable goggles when driving motorcycle.

2. Please be familiar with the construction of this motorcycle

Your driving skill and your mechanical knowledge are foundation of safety driving. Drilling and exercise should be made on an open site without any vehicle for purpose of familiar with your motorcycle and its operating methods. Please remember that practice makes perfect.

3. Understand your limitation of safety speed

The driving speed depends on situation of ground surface, your skills and weather. Understanding of this limitation may avoid occurrence of traffic accidents. At any time, as long as you drive within your practiced and skilled range, you may void occurrence of traffic accidents.

4. Wear suitable clothing

Loose, slack and strange clothing may make that you feel uncomfortable and unsafely. When you are sitting on the saddle, wearing suitable and fitted clothing may make that you are free. Gloves, boots, necessary safety helmet, and the others will indicate that you are a qualified motorcycle driver. Selection

of high - quality and tight clothing shall be made as practical as possible.

5. Pay more attention to drive safely in cloudy and rainy climate

Special attention shall be paid for cloudy and rainy climate. Please remember that the braking distance shall be double that of in fine weather. Please keep away from the manhole, paint, and dirty surface on the road as practical as possible for purpose of avoidance of slippage. Wet road may possible result in danger. Sudden turning shall be avoided at the time of acceleration. Special attention shall be paid when passing through railway or bridge etc. Please remember keep safe space with the vehicles ahead.

6. Examination before Driving

Please carefully read the section “Examination before Driving” and drive pursuant to the driving rules for purpose of your and passengers’ safety.

Position of Identification Number

Frame series number (or VIN)



Engine Number



Frame series number (or VIN) and engine number is for registration of motorcycle. When placing an order

of parts or requesting for special service, these number may help dealers provide better service for you.

The frame series number (or VIN) is stamped on the vertical pipe of the frame. The engine number is stamped on the left side of crankcase. using for indication of main technical data and manufacturer of this model of motorcycle.

Please write down the series numbers here for future reference.

Frame series number (or VIN)

Engine Number

Installing Position of Components

Dash Board on the grip



- (1) Clutch Grip
- (2) Switch of Left Grip
- (3) Speed Meter
- (4) Ignition Switch
- (5) Engine Tachometer
- (6) Tachometer
- (7) Switch of Right Grip
- (8) Throttle Control
- (9) Front Braking Grip

Left View of the Complete Motorcycle



- (1) Fuel Switch
- (2) Starting Accelerating Grip
- (3) Shifting Rod
- (4) Side Parking Frame

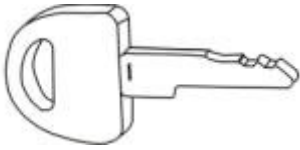
Right View of the Complete Motorcycle



- (5) Tool Kit
- (6) Main Parking Frame
- (7) Rear Braking Retaining Plate

Operating Parts

Key



Two pieces of key are supplied together with the motorcycle, where one piece should be properly safekeeping for standby use.



Dash Board

Odometer (1)

For Record of all the running distance of this motorcycle from putting into service.

Speed Meter (2)

For indication driving speed in Mile/h.

Tachometer (3)

The tachometer shows engine revolution in rpm.

Fuel Level Gauge (4)

This shows the oil level in the oil tank in liter. When the indicating hand of the oil level gauge is fallen into the red range, please


immediately fill it with gasoline.

Milometer(5)


This is a kind of odometer may be cleared to zero, which is installed within the odometer, mainly used for recording distance of short - distance driving or for calculation of oil consumption.

Ignition Switch (6)

Designed with three positions:

“” (Off) position

All the circuits are disconnected and the key may be removed.

“” (ON) position

All the ignition circuits are connected and the engine may be started. Don't press down the key on this position.

Headlight on full beam (7)

When the headlight is on full beam position, the pilot lamp is ON.

Shifting Pilot Lamp (8)

The number indicates the current shifting position of this motorcycle. This only shows that the lamp is ON on the NEUTRAL position and is OFF on the other positions. Only placing on the NEUTRAL position, the pilot lamp is ON in green.

Turning Lamp(9)

When you turn left, the left turning lamp will turn green; When you turn right, the right turning lamp will turn green

Control System of the Left Grip



Clutch Grip (1)



When starting the engine or shifting, firmly hold this grip for shut - off transmission system and for disengagement of clutch.

Overtaking Lamp Switch (2)

Press the pushbutton down, the Hi - beam lamp of headlight is ON. Continuously push this switch when overtaking so that the headlight flashes to remind that the vehicles ahead should pay attention to be overtaken by the vehicle in the rear.

Dimming Switch (3)



Hi - beam operation

When the dimming switch is upward moved to “” (upper beam) position, the headlight upper beam lamp is ON and the upper beam pilot lamp on the dash board is also ON. When the dimming switch is upward moved to “” (lower beam) position, the lower beam pilot lamp is ON.

Air-Inlet Bar (4)


When it's difficult to start the bike, pls pull the air-inlet bar back which will make it easier to start the bike

Turning signal operation (5)

Push the switch to the position “”, left turning signal lamp is ON and the pilot lamp on the dash board is also flashing. Push the switch to the position “”, right turning signal lamp is ON and the pilot lamp on the dash board is also flashing.



Electric Starting Button (1)

Press down the button “” to connect the starting motor circuit. Place the shift handle on the NEUTRAL position to shut off transmission for purpose of safety when starting.

Warning

Continuously start the motor. Don't exceed five seconds each time. Excessively discharging will make the circuit and starting motor abnormally heat. Failing to start after several times of trial, stop to examine oil supplying system and starting circuit system (Please refer to Section Troubleshooting)

Engine Shutdown Switch (2)

 OFF position

Change the switch over this position, the engine will shut down. The motorcycle is unable to start if re - starting. The switch needs to be ON for starting the motorcycle.

 ON position

Change the switch over this position, the circuit is ON and then the motorcycle may be started.

Stop switch(3)

“” Normal situation

⚠ When you stop the motorcycle, pls make the lever to this mark, then all the turning light will be on to alarm other driver.

Front Braking Grip (4)

Front braking is to slowly and firmly hold the right grip toward the control grip direction. This variant adopts hydraulic braking. Don't suddenly hold the grip firmly in case of deceleration.

The braking lamp will automatically be ON when firmly holding the grip.

Accelerator Rotary Grip (5)

The accelerator rotary grip is to control engine rpm. Rotate it toward the driver himself in the time of acceleration and rotate it away the driver himself in the time of deceleration.

opening the fuel oil tank cover and then pull out the oil tank cap together with the key. Align with the arrow mark on the oil tank cap when covering the tank and then apply the cap into the oil tank cap hole together with the key for pressing down until a locking sound occurs. Finally, pull the key out of it.

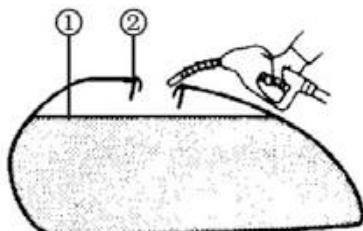
Caution: Don't directly flush the oil tank cap with high - pressure water so that water cannot flow into the oil tank.

Warning

Don't fill with oil excessively. Don't make the oil splashing on the hot engine. Don't fill with oil on the top of oil filling orifice. Otherwise, oil will overflow when the oil is expanded due to fuel temperature rise.

Shutdown the engine before filling with oil and turn the key to the OFF switch. No smoking in case of filling with oil.

Fuel Oil Cover



① Gasoline Level ② Oil Filling Orifice

Insert the key to rotate clockwise when

Accelerating Pedal

This variant is designed with 5 - shift speed gear engagement transmission. The transmission lever is connected with a ratchet mechanism in the transmission. The transmission lever will automatically return to the original position after selection of one shift for purpose of selection of next shift. The NEUTRAL position locates between the low - speed shift and Shift II. Step down the transmission lever on the NEUTRAL position to engage the low - speed shift. Engage the shift by upward lifting the transmission lever. Don't accelerate or decelerate by two shifts or

more for one time due to adoption of ratchet mechanism. When shifting from Shift II to the low - speed shift or from the low - speed shift to Shift II, pass through the NEUTRAL position and not stopping on this position. Provided that it needs to be stopped on the NEUTRAL position, stop at the middle of process from the low - speed shift to Shift II for purpose engagement of NEUTRAL position.

on the dash board will be ON.

Supporting Bracket

This variant is designed with central supporting bracket ø and side supporting bracket ø . Step on the pedal lever and lift the rear cargo rack by right hand. Hold the steering grip by left hand. Pull it from the upper rear direction by force to fix the motorcycle on the supporting bracket.

Place the motorcycle on the side supporting bracket. Step on the end of the side supporting bracket and step down it by force until the supporting bracket turns to the end and stops against the stopper.

Caution:

When the transmission is on NEUTRAL position, the neutral pilot lamp on the dash board is ON. Although the lamp is ON, the clutch lever shall slowly be released to determine whether the transmission is on NEUTRAL position.

Caution:

The motorcycle head of shall be upward the slope when placing the motorcycle on the slope for prevention of supporting bracket from falling. The motorcycle may be engaged on Shift I for prevention of supporting bracket from falling.

Decelerate before shifting towards the low - speed shift because the engine will accelerate before the clutch is engaged at the time of shifting towards the low - speed shift. This measure may prevent unnecessary wear of braking elements and rear wheel.

Rear Braking Pedal



Warning:

Pay attention to examine whether the side supporting frame can normally be returned on the normal position and whether swaying or slack parts can be found before starting.

Step down this pedal and the rear braking device will function. The braking pilot lamp

Carburetor Excessive Fuel Device

This motorcycle is designed with carburetor excessive fuel system for purpose of easy starting. Under the engine is cooled down, press down the excessive fuel rod at the dead bottom point to start the engine. Once the engine is



starting, lift the excessive fuel rod upward by a half distance to continuously warm up until the temperature is properly risen and then return the excessive fuel rod to the original position.

This excessive fuel rod can function only under the accelerator is closed. If rotating the accelerator for acceleration in the process of running, the fuel will not pass through the excessive fuel system and oil is supplied by the accelerating system.

If the engine is very hot, it is unnecessary to use excessive fuel system to start.

Turning Lock



In order to lock the steering grip, first turn the grip left. Then, insert the key to clockwise turn firmly for locking.

Warning

Under the steering grip is locked, never push the motorcycle. Otherwise, you will be out of balance.

Helmet Lock

This motorcycle is provided with helmet locking device, locating on the lower left of the saddle. If you want to unlock the helmet,

insert the ignition key into this lock and then clockwise turn the key until it is unlocked.



Apply the retaining ring of the helmet on the locking catch and then press down the

key. Push it when closing.

Caution:

Don't start the motor when the helmet is fastened on the helmet lock because the helmet will disturb driving safety.

Fuel Switch

This motorcycle is designed with manually controlled oil valve with three positions i.e. “U” (Open), “V” (Reserve), and “●” (Close).

“U” (Open)

Generally, oil plug handle is located on this position. Fuel flows to the carburetor from the oil plug when the accelerator control handle is rotating.

“V” (Reserve)

If the oil level in the oil tank is too low, the oil plug handle is located on the position. 1.6 liter of reserved oil may continuously be supplied.

“●” (Close).

The oil plug handle will be placed on this position after the engine is shutdown.

Caution:

If the oil plug is placed on the “U” (Open), “V” (Reserve) position, oil will overflow from the carburetor and gasoline will flow into the engine. The gasoline will flow into the engine when the engine is

starting, which may result in serious mechanical damage.

The Initial 800km	Up to 5000rpm
1600km	Up to 7500rpm
1600km or more	Up to 10000rpm

Notes:

After the oil plug is located on the RESERVED position, filling with oil immediately and relocate the oil plug handle on the opening position after filling with oil.

Instructions to Fuel and Lube Oil Use

Fuel

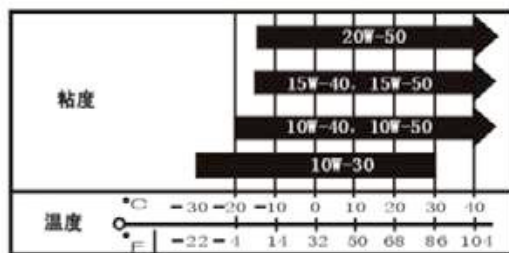
Please lead - free gasoline. If the engine presents slightly explosive noise, it may be resulted from using general - use fuel as substitution, which should be replaced.

Notes:

Use of lead - free gasoline may extend service life of spark plug.

Lube Oil

Use of high - quality 4 - stroke lube oil may extend service life of spark plug. Selection of lube oil shall be made with Grade SE or SD according to API classification, with a viscosity of SAE10W - 40. If this type of oil can uneasily be available, selection of substitution shall be made according to the following table.



Run - in of New Motorcycle

The forward shows that the run - in of new motorcycle will play an important role to extend service life of the motorcycle and its performance. See the following table for correct run - in method.

Engine rpm Change

The engine rpm shall not be kept constantly, which needs to be changed always so that all the components of engine can bear pressure. However, all the component parts of the engine will be cooled down when the pressure is released, which may help fit the parts. At the time of trial run, it is important some forces applied on the engine parts may ensure fit, but overloading is not allowed on the engine.

Avoidance shall be made at certain low rpm

If the engine runs at certain low rpm (low load), it only can be smoothly ground instead of well run - in. As long as the maximum limit used is not exceeded, the engine may be accelerated at any shift. However, within the initial 1600km, the maximum acceleration is not allowed.

First Lubricating before Driving

After starting the engine at hot and cold status and before not applied with load or Examination before Driving

running, the engine shall sufficiently run at idle speed so that lube oil may flow through the key components of the engine. Make maintenance and servicing for the first time.

It is the most important to make maintenance and repair occurred within the initial driving 1000km. During run - in, all the engine parts have been run - in and other parts has been engaged. So, all the components shall be properly adjusted and all the fasteners must be fastened. Replace the contaminated lube oil.

Make servicing immediately when the motorcycle has driven for 1000km to ensure longer service life and better performance of the engine.

Caution:

Maintenance at 1000km driving distance shall be made in accordance with "Troubleshooting", of which "Caution", "Warning" shall specially be paid.

Carefully examine the following items before driving, of which significance must not be

neglected.

Items	Purpose
Steering grip	<ol style="list-style-type: none">1. Smooth2. Rotate free3. No clearance or not loosening can be found
Lighting	Operate all the lamps including headlight, tailing lamp, braking lamp, lighting lamp of dash board, turning signal lamp
Transmission oil	Examine oil level
Braking device	<ol style="list-style-type: none">1. Clearance of rear braking pedal and front braking grip2. No "sponge" situation due to not flexible braking3. No oil leakage can be found
Pilot lamp	NETURAL, oil level pilot lamp (or turning signal pilot lamp)
Accelerator	<ol style="list-style-type: none">1. Accelerator pulling cable function2. Flow smoothly and accelerator throttle may reliably be returned to the OFF position
Tire	<ol style="list-style-type: none">1. Calibrate air pressure2. Proper tire pattern depth3. No scoring and cutting can be found
Horn	Calibrate function
Clutch	<ol style="list-style-type: none">1. Calibrate clearance of pulling cable2. Smoothly forward
Fuel	Sufficient fuel needed for driving distance
Transmission chain	<ol style="list-style-type: none">1. Adjust tensioning2. Properly lubricating

Driving Key Points

Warning::

If you drive this motorcycle for the first time, we suggest that you preferably exercise on a non - public road until you are familiar with the control and operating method of this motorcycle.

Place the side supporting frame on the normally lifting position before driving.

Don't shift to decelerate when turning. Slow down to safe speed before turning.

Don't shift to decelerate during turning.

It is most dangerous that you drive by one hand only. Firmly hold the grip with your two hands and step on the pedal with your two feet.

Firmly hold the grip by your both hands at any time.

On the wet and smooth road, braking and turning capacity will naturally decrease due to small friction force of tire. So, you must decelerate in advance.

Follow the traffic rules and limit speed.

Engine Starting

Examine whether the accelerator switch is placed on ON position and then examine whether the engine shutdown switch is placed on "O" position. Insert the ignition key into the ignition switch and clockwise turn it on the contact point of ON position. If the transmission is NEUTRAL position, the NEUTRAL pilot lamp is ON.

Warning:

Get a habit to always engage the transmission on NETRUAL position when starting. Firmly hold the clutch grip and then re - start to avoid fly out forward in case of engagement by mistake.

1. Press down the engine starting button to ignite. Don't rotate the accelerator control grip when starting.

Notes:

Immediately release the button after engine ignition for purpose of bad effect to the engine.

For prevention of thorough discharging of battery, if failing to ignite it after pressing down for 5 seconds, pause for 10 seconds and then restart it.

If failing to ignite the engine after repetitive 2 - 3 operation, rotate the accelerator control grip by $1/8 - 1/4$ turns, and then restart it.

The motorcycle not in use for a long time or bad atomized fuel may result in difficult starting. Here, start it again and again instead of rotating the accelerator control grip.

2. Ignite it with recoiling starting rod

If the battery is thoroughly discharging, ignite it recoiling starting rod.

Turn the ignition switch on the ON position.

Step the recoiling starting rod down by force.

When the engine is under cold status

Press the carburetor excessive fuel rod down to tightly close the accelerator. Start it with the starting button. Pull the excessive fuel rod on by a half distance after starting to make the engine can sufficiently warm up, and then pull to return the rod to the original position. The lower ambient temperature is, the longer the warm - up time of the engine is.

When the engine is under hot status

Open the accelerator control device and turn it by $1/8 - 1/4$ turns. Press the electric starting button to start it. It is unnecessary to use carburetor excessive system when the engine is under hot status.

Warning:

Don't start engine in a room with bad or without ventilation because carbon monoxide is of serious toxicity. Don't keep away from the starting motorcycle at any time under it is unattended.

Caution:

It shall not run for too long time at an idle speed in case of not driving. Otherwise, the engine is overheated to damage the internal parts or.

MAINTENANCE

INSPECTION AND MAINTENANCE SCHEDULE

It is very important to inspect and maintain your motorcycle regularly. Follow the guidelines in the chart below. The intervals between periodic services in months are shown. At the end of each interval, be sure to perform and document the maintenance listed. Only an authorized Cleveland CycleWerks service center may maintain, replace, or repair emission control devices and systems.

WARNING:

Failing to perform recommended maintenance or performing maintenance improperly can lead to an accident and cause serious personal injury, cause noncompliance to emissions regulations, and may void your warranty. If you are not sure how to perform the maintenance items below, contact your CCW authorized service center or Cleveland CycleWerks.

Item	Weekly	Monthly	Quarterly	Yearly
Fuel Lines		I	L	I
Air Cleaner *	C	C	I	I
Throttle Controls *	I	A	I	A
Spark Plug		C	I	R
Valve Clearance *		I	I	I
Engine Lubricant *	During run-in period, replace every 150 miles. After run-in period, replace every 600 miles.			
Gearbox Lubricant *				
Engine Lubricant Filter Screen *	C	C	I	I
Carburetor	C	C	C	C
Drive Chain *	I	A		L
Battery *			I	
Brake Shoe		I		
Brake System *	I	I		
Electric Parts		I		
Bolts, Nuts, Fasteners *	I	L	I	
Gear in Gearbox			I	I
Fuel Tank	I	I		
Tire Pressure Wear *	I			
Steering System *			A	
Chassis *		L	I	

I = Inspect and clean, adjust, lubricate, or replace as necessary

C = Clean R = Replace L = Lubricate A= Adjust

* 1st Scheduled maintenance is crucial to the longevity of your motor. 1st scheduled maintenance should be performed between 150-500 miles. This maintenance should include the following items:

1. Visual and performance inspection of: Air cleaner, throttle controls, brake system, all bolts and fasteners, tire pressure and wear pattern, steering system's proper operation and actuation, chassis inspection.
2. Oil should be changed with approved SAE standard Oil listed in this manual, Oil Filter removed, cleaned and inspected.
3. Valve clearance should be checked to make sure it is within proper manufacturer specification. Valve clearance is typically acceptable at **0.04 - 0.06mm** intake and **0.05-0.06mm** exhaust. Please have all maintenance performed by authorized service center. Tampering with your motorcycle may void applicable warranty.

Caution:

Start the engine at transmission position, clutch ON position or normal driving position when the driver is sitting on the seat.

Initial Start - out of the Motorcycle

Firmly hold the clutch rod and stop it for a very short time. Step down transmission rod and engage it on Shift I position. Slowly left rotate the accelerator control grip and simultaneously slowly and stably release the engagement of clutch. Here, the motorcycle will run forward.

If changing over the next higher speed shift, first slowly decelerate and then close the accelerator and firmly hold the clutch level rod. Change the transmission lever over the next higher speed shift and release the clutch lever and then slightly rotate the accelerator. Follow the instructions to shift one by one for purpose of maximum - speed shift.

Warning:

Before initial starting - out, return the side parking rack on the original position against the motorcycle body. Never place it on the other places.

Use of Transmission Device

The transmission device may make that the engine can stable run within normal range. The transmission ratio can be designed for matching engine characteristic. The driver shall select the most suitable shift under a general condition. Don't slip the clutch in order to control speed. Shift down the engine if deceleration is necessary so that the engine may run within normal rpm range.

Caution:

Never run at the speed indicated by the red range of the tachometer at any shift.

Driving on Slope

When climbing the steep slope, the motorcycle will decelerate due to power drop. Here, you may shift down so that the engine may run within normal power range. Pay attention that shifting must be as rapid as possible for purpose of lack of forward dash force.

When run downward the slope, the engine shall shift down for purpose of braking.

Remember: Don't run at too fast speed when running downward the slope.

Operation of Braking Device and Parking Method

Wrench to turn the accelerator grip outside to make the accelerator fully closed.

Simultaneously, uniformly operate rear and front braking device.

Shift down to decelerate it.

Firmly hold the clutch grip to shift on the NEUTRAL before the motorcycle is stopping. Observe the NEUTRAL pilot

lamp for identifying whether it is on NEUTRAL position.

Warning:

The distance needed for parking will relatively be longer in case of too fast speed. Make sure to estimate the distance between you and the vehicles and objects ahead for safe parking.

An inexperienced driver will always use rear braking device only, which will result in fast wear of braking system so that the braking distance becomes longer and longer.

It is very dangerous to use the rear braking device or front braking device only, which will cause out - of control due to slip. On the wet road or the other smooth roads and turning location, pay special attention to slightly use braking system. The sudden braking system on the uneven road or smooth road is especially dangerous.

If the motorcycle needs to be placed on the slight slope relying on side supporting bracket, engage the engine on Shift I for prevent side supporting bracket from slipping and rolling. Shift it on NEUTRAL position before the engine is starting.

Change the ignition switch over the OFF position to shut down the engine.

Remove the key from the switch.

Properly lock the turning device for purpose of safety.

Examination and Maintenance

The following table shows the interval of regular maintenance by driving kilometers or by month. When time limit is up, follow the instruction to examine, inspect, lubricate, and maintain the motorcycle. If driving at continuously maximum speed or in the sandy environment, make regular maintenance in accordance with Section "Maintenance" for purpose of ensuring driving reliability. The dealer may provide you with further guidelines. The turning element, vibration isolating element, bearing, and wheel are critical, which are required with expertise and careful repair. For purpose of safety, we suggest that you have the authorized dealer or qualified technician examine or maintain.

Caution;

One or more elements need to be replaced at the time of regular servicing. We suggest that you will use genuine or equivalent spare parts. No matter how you are a profession or you have repairing experiences, you

preferably entrust the authorized dealer or qualified technician to handle those items marked with *. For those items without any marking, follow the instructions mentioned in this section to do them yourself.

Warning:

Maintenance must be made after correctly run - in through 1000km for a new motorcycle, which may ensure safety of your motorcycle and may normally function.

Make sure that regular servicing must be thoroughly made according to this instruction manual.

Lubricating Table

Items \ Intervals	Initial every 6000km or 6 months	Every 6000km or 6 months
Accelerator steel cable	Lube oil	-
Clutch steel cable	Lube oil	-
Speed meter steel cable	-	Grease
Driving chain	Lubricate with lube oil once every 1000km	

* Camshaft of braking device	-	Grease
Accelerator control grip	-	Grease
Braking device steel cable	Lube oil	-
Speed meter gear box and wheel shaft bearing	-	Grease
Braking pedal	Grease or lube oil	-
Steering shift	Apply grease once every two years or every 20000km	

Notes: “—” means not required

Tool Kits



The tool kit is provided under the right side cover. Remove the right cover to open the tool kits and take the tools out.

Tool

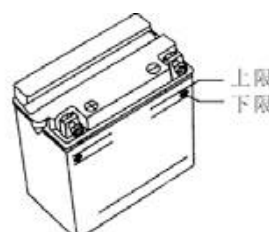
To help you make regular maintenance, a set of tool is especially provided on the lower right of the frame.



No	Description
1	Tool bag
2	10 x 12mm open - ended spanner
3	14 x 17mm open - ended spanner
4	Spark plug socket wrench
5	Spark plug wrench handle
6	Screwdriver set
7	Screwdriver handle

Battery

Open the right guard plate of the frame to examine the electrolyte level. The electrolyte level must be kept between the lower limit and the upper limit. If the electrolyte level is below the lower limit, fill it with distilled water up to the upper limit. Never fill it with tapping water.



上限 Upper Limit

下限 Lower Limit

Warning

Don't fill with sulphuric acid once the battery is put into service.

Caution:

Don't bend, clog or change the venting pipe from the battery. Confirm that the venting hose is connected to the battery ventilating parts and the other end is always kept in an open situation. Don't confuse the venting pipe. The battery shall be installed on the designated location.

When the electrical wiring and battery lead is connected on the top of the battery, the pole shall be correctly connected. The red wire must be connected to positive (+) pole and black lead to negative (-) pole. Reversely wiring connection will damage charging system and battery.

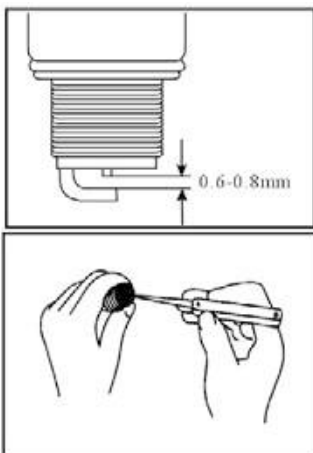
Notes:

After initial 1000km and every driving 8000km, you will have dealer examine the specific gravity of each cell in the battery with electrolyte specific gravity meter.

Spark Plug

After initial 1000km and the later every driving 3000km, remove the carbon accumulated on the spark plug with small metallic wire brush or spark plug cleaner. Re - adjust spark plug electrode clearance by 0.6 - 0.8mm with spark plug clearance and thickness measuring shim. Replace the spark plug after every driving 6000km.

Observe color of the ceramic tip on the spark plug when removing the carbon accumulated. Such color may indicate whether the standard spark plug can accommodate your application type. If the standard plug seems to present wet or in black color, it is better suitable to be replaced with high - voltage thermal spark plug. The normally working spark plug is in shallow grey or cotton yellow. If the spark plug is very white or seems to be shining, it shows that the spark plug works under overheating condition. Here, the spark plug shall be replaced with a cold type of spark plug.



Guidelines for Replacement of Spark Plug

NGK	NHSP LD	Remarks
CR7E	B7RC	If the standard spark plug is wet, replace it with this

		one.
CR8E	B8RC	Standard spark plug
CR9E	B9RE	If the standard spark plug is overheated, replace it with this one.

Don't excessively tighten the spark plug or the threads are staggered for preventing the cylinder cover threads from damaging. When removing the spark plug, don't let the sundries enter into the engine through the spark plug hole.

The standard spark plug used for this variant of motorcycle is selective, which may accommodate most working range. If the color of spark plug is different from the standard spark plug, you preferably contact the authorized dealer before replacing with spark plug with different thermal resistant range. If the spark plug is improperly selected, the engine will be seriously damaged. Selection of the other brands for spark plug will result in consequence of operating difficulty. Therefore, contact the authorized dealer before selecting the other brands of spark plug.

Lube Oil

Endurance of engine depends on high - quality lube oil and regular replacement of lube oil. Daily examination of the lube oil level and regular replacement of lube oil are two of the most important tasks which must be done in the process of maintenance.

Examination of Lube Oil Level

Replacing Lube Oil and L / O Filter

After initial driving 1000km and every driving 6000km, replace transmission oil. Replace oil when the engine is hot so that the oil in the engine may thoroughly be drained. Follow the following instructions;

1. Place the motorcycle on the central supporting bracket.
2. Remove the oil filling cap.



3. Remove the oil drain plug on the bottom of the engine and drain the oil sump tank.



4. Remove three pieces of screw on the guard cover of the oil filter



5. Remove the side cover and pull the oil filter out and then replace it with a new one.

Caution:

Insert the open end of the filter element into the engine and simultaneously examine whether the element is stably installed.

6. Carefully examine the spring and the gasket of the filter element before re - assembling the side cover.

Caution:

Replace the gasket when replacing the filter element.

7. Re - assemble the side cover and tighten the nuts but don't excessively tighten them.
8. Tighten the oil drain ring. Fill with unused lube oil by approximately 950ml from the oil filling orifice under the oil filter top cover and then slightly tighten the top cover.

Notes:

If only replacement of lube oil instead of replacement filter element, 1000ml new oil is needed.

9. Start the engine to run for several seconds at idle speed.

Caution:

Carefully examine whether oil leakage can be found from the filter guard cover.

10. Shut down the engine and wait for one minute and then examine the oil level from the lube oil viewer. The oil level shall be kept exceeding the "F" (Full) mark. If the oil level is below the "F" (Full) mark, fill with oil up to "F" (Full) mark (as appropriate).

Caution:

Please always use the lube oil recommended

by the section "Instructions to Fuel and Lube Oil Use".

Braking Device

Examine the braking device after initial driving 1000km and every driving 3000km.

Correct braking operation is important to driving safety. Make sure to remember the braking system must be regularly examined by the qualified dealer.

Warning:

The braking device concerns personal safety, which must correctly be adjusted.

If the braking system or the braking disc needs to be maintained and repaired, we uncompromisingly advise that this must be done by the authorized dealer who has full series of tool and skillful technology to perform this in a safest cost - effective way.

Front&rear Braking Device

Daily examine the hydraulic braking system as follows:

1. Examine leakage of front wheel braking system;
2. Examine leakage or crack of oil pipe;
3. The front braking grip shall be maintained with a certain counter bearing force; and

el braking



Caution:

The wheel disc braking system adopts high pressure braking system. For purpose of



safety, the interval for replacing oil pipe and hydraulic oil may not be longer than that stated in the section of maintenance schedule.

Braking Hydraulic Oil

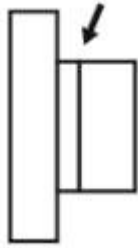
Warning:

If the braking hydraulic oil is drunk by mistake, eye contact or skin contact, it is harmful. If it is drunk by mistake, induce to vomiting. If eye contact or skin contact, immediately flush with a great deal water and seek medical care at once.

Pay attention to examine the oil level in the front braking hydraulic oil box. If the oil level drops, fill with recommended hydraulic oil (as approximate). Because the oil remained in the box will automatically flow into the oil pipe at the time of friction of braking disc, the oil level will drop. Filling with braking hydraulic oil shall be deemed as an important item for regular servicing.

Disc Brakes

The key point for examination of front wheel disc brake and rear wheel disc brake are to check whether the wear is up to limit marking. If it exceeds the limit marking, replace the disc brake.



Warning:

For the newly re - assembled wheel disc braking disc, don't immediately ride and drive. First grasp and release the braking grip for several times to let the braking disc sufficiently extend and spread to restore the counter bearing force of the normal grip and make the braking liquid circulate safely.

Caution:

Please use the high-strength glue when you assemble the front brake and front axle.



φ Stroke



ø Adjusting Nut

Switch of Rear Braking Lamp



Muffler



Rear Braking Device

Adjustment of Rear Braking Pedal

First place the pedal at the most comfortable driving position when adjusting the rear braking pedal. Positioning may be made by wrenching the adjusting nut on the pedal and then turn the stroke adjusting nut φ to make φ keep within in 20 - 30mm range.

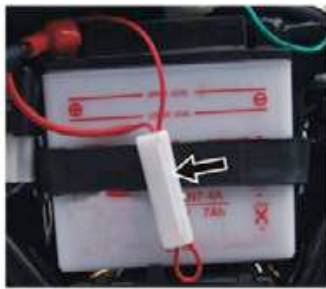
Turning lamp	12V	10W
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Caution;

Please keep away from the muffler on the motor driving for a long time for prevention of scald.

Fuse

The fuse box is provided within left guard plate on the frame. All the electrical systems are protected by a piece of fuse. If an electrical system is of failure, examine the fuse. If the fuse is broken, replace it with the standby fuse (15A) in the fuse box.



Caution:

Make sure to use fuse with required amperage when replacing the broken fuse. Never use aluminum foil or steel wire to replace the broken fuse. If the installed standby fuse is broken within a short term, it shows that more serious electrical fault has possibly been occurred. Here, you should immediately contact the authorized dealer.

Headlight

1. Remove two screws outside the headlight and pull the headlight assembly out.
2. Counterclockwise turn the lamp holder and pull it out.
3. Press down the bulb and counterclockwise turn to pull it out.
4. Correctly tighten the new bulb and re - assemble the assembly and then lock it properly.



Caution:

This motorcycle is designed with reflective headlight. Don't access the reflective glass piece for preventing service life of lamp from reducing when replacing the bulb.

Replacing the Lamps

See the following table for the rated power in Watt of each lamp. Make sure to use the lamp equivalent with rated power in Watt when replacing the broken lamps. Otherwise, it may possibly result in overloading of electrical system and that the lamp will be damaged too early.

Headlight	12V	35W / 35W
Braking lamp / Rear position lamp	12V	21W / 5W

Turning Signal Lamp



1. Remove two screws on the lamp shade and remove the lamp shade.
2. Press down the bulb and left turn it and remove the bulb.
3. Press the newly installing bulb down and right turn it when installing the new lamp.

Caution:

Pay attention not to excessively tighten two screws for preventing the lamp shade from crushing after installing the lamp shade.

Tailing Lamp / Braking Lamp

Replace the bulb of tailing lamp / braking lamp according to the following instructions:

1. Remove two screws on the tailing lamp shade and then remove the lamp shade.
2. Press down the bulb and left turn to disengage the pin. Pull the bulb out. Push the bulb and right turn to tighten the bulb when installing.



Caution;

Don't excessively tighten the fixing screws when re - assembly the lamp shade.

Air Filter

The air filter of this motorcycle is made of foam plastic. If the air filter element is clogged by dust and with power output is decreasing, the air inlet resistance will be increasing. With gasoline content in the mixing gas is increasing, fuel consumption will be increasing. Therefore, after every driving 3000km, examine and clean the air filter element according to the following procedures.



Caution:

Frequently clean or replace the air filter when driving under dusty condition.

1. Remove the left guard plate.
2. Loosen closure screw ϕ of air filter and remove the air filter sleeve ϕ .
3. Take out the foam plastic sleeve housing of the air filter.
4. Separate the foam plastic and the external frame.
5. Carburetor

Carburetor stability is a foundation to ensure engine performance. The carburetor has been adjusted in an optimized way in the factory before delivery. Don't unnecessarily adjust it. Please note that accelerator steel wire clearance and idle speed need to be adjusted for the carburetor. Adjust it after initial driving 1000km or every 3000km according to the following procedures.

Idle Speed RPM Adjustment of Carburetor

1. Start the engine to run at idle speed until fully preheated.
2. Turn to close the accelerator and screw in or screw out the idle speed adjusting screw to keep the engine revolution at 1400 ± 100 rpm after the engine is preheated.

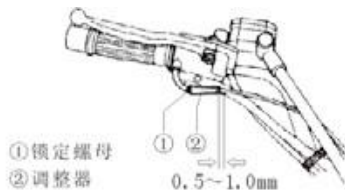


Caution:

Engine idle speed shall be adjusted under fully preheated condition.

Adjustment of Accelerator Steel Wire

1. Loosen the locking nut.
2. Turn the adjuster to adjust the steel wire clearance by 0.5 ~ 1.0mm.
3. Re-tighten the locking nut after adjusting clearance.



① Locking Nut

② Adjuster

Caution:

Examine rotation of accelerator switch grip

after the accelerator steel wire is adjusted. Don't increase engine idle speed due to this adjustment. Meanwhile, the switch grip shall automatically return to the oil shut-off position.

Adjustment of Clutch



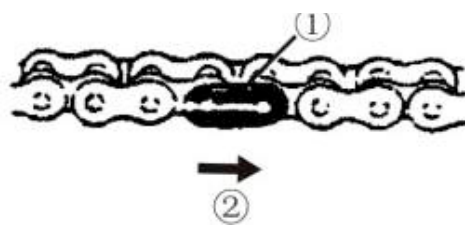
The clutch adjusting method shall be as follows:

Adjust tension of steel wire ϕ of clutch grip. Measure the clutch steel wire by 4mm at the clutch rod before the clutch grip is firmly held and you just feel that the gear engagement is released. If the clutch steel wire clearance is incorrect, adjust it according to the following procedures.

Release the nut ϕ and turn the grip tension adjusting ring $\textcircled{3}$ and then clockwise turn it to the utmost end. Release the locking nut $\textcircled{6}$ of the steel wire adjusting ring and then back and forth turn the steel wire tension adjusting ring $\textcircled{5}$ to keep that the clearance is opened by about 4mm. Fine adjustment may be made through the grip tension adjusting ring $\textcircled{3}$. Lock the locking nut $\textcircled{2}$ and $\textcircled{6}$. Meanwhile, apply the sleeve $\textcircled{4}$ after properly adjusted.

Adjustment of Driving Chain





- ① Adjusting Bolt
- ② Locking Nut
- ③ Marking
- ④ Rear Wheel Axes Nut

When adjusting:

1. Support the motorcycle with a central supporting bracket;
2. Release the rear wheel axes nut;
3. Release the locking nut; and
4. Right and left turn the adjusting bolt to adjust the chain.

Caution:

Examine both chain wheels after replacing with new chain and replace them (if necessary).



15 ~ 20mm

Adjust the driving chain for every driving 1000km to make that the moveable distance between both chain wheel shall be 20 ~ 30mm.

Caution:

The open end of the connecting point clip on the driving chain shall be installed against rotation direction.

- ① Chain Connecting Clip
- ② Rotation Direction

Examine the following situation of the driving

chain when regularly examining:

- (1) Chain pin loosened
- (2) Pin roller damaged
- (3) Chain knot rusted
- (4) Chain knot not rotated free
- (5) Excessive wear
- (6) Chain improperly adjusted

If the driving chain has any above - mentioned trouble, it may possibly be caused by damage chain wheel. Examine the chain wheel as follows;

- (1) Chain wheel excessively worn
- (2) Wheel tooth broken or damaged
- (3) Fixing nut of chain wheel loosened

Cleaning and Lubricating of Driving Chain

Dust on the driving chain will quicken wear of driving chain and chain wheel. Therefore, clean the driving chain with detergent and lubricate it with lube oil specifically used for motorcycle chain or engine lube oil after every driving 1000km.

Tire

Examine tire air pressure and tire pattern after initial driving 1000km and every driving 3000km. In order to ensure maximum safety and longer service interval, regularly examine the tire air pressure besides regular servicing.

Tire Air Pressure

If the tire air pressure is insufficient, not only does quicken wear of tire, but also significantly influence driving stability of the motorcycle. Insufficient air pressure will make it difficultly turn. However, excessive air pressure will reduce the contact area between the tire and the ground so that the wheel is slipping even out of control. Make sure that the tire air pressure is within

required range. Adjustment of tire air pressure shall be made under cold status of tire.

Tire air pressure;

Front wheel: 225kPa

Rear wheel: 225kPa

Outer Cover Pattern of Tire

The driving stability will reduce when driving a motorcycle with excessively worn tire, which may possibly result in out - of control. When the outer cover pattern depth on the front wheel is not more than 1.6mm, we recommend that you preferably replace the outer cover of the tire. Replace the tire with a new one if the outer cover pattern depth on the rear tire is not more than 2mm.



Warning:

For the tires of your motorcycle, their standard shall be as follows:

Front wheel: 90 / 90 - 18

Rear wheel: 120 / 80 - 16

Use of the tires in compliance with the standard may possibly result in problems. We sincerely recommend that you select standard tires.

The tire air pressure is very important for normal performance and driving safety of motorcycle. Frequently examine wear and air pressure of tire.

Troubleshooting

If the engine fails to start, please examine it according to the following procedures to find causes:

1. Oil level in the fuel oil tank;
2. Whether the oil flows to the carburetor from the oil plug;
3. Shut off the oil from the carburetor and change the oil plug over the ON position to whether gasoline flows out from the pipe.
4. If making sure that fuel has already reached the carburetor, please examine the igniting system.

Warning:

Don't let fuel flow on the ground, which should be collected into the container. Don't let fuel approach the high - temperature engine and exhaust pipe. Keep away from open flame or heat source.

No Smoking. Examine the fuel system in an open space.

1. Remove the spark plug and connect it with high - voltage wire again.
2. Change the igniting switch over ON position and place the shutdown switch of engine on "O" position to make the spark plug closely face toward the engine and start the engine. If the igniting system cannot normally work, here blue spark will flash across spark plug clearance. If no spark can be found, have



the authorized dealer repaired.

Warning:

Don't fix the spark plug near the cylinder head when examining. Otherwise, the gasified fuel in the cylinder may possibly be ignited by the spark plug, which may possible result in fire hazard.

In order to reduce possibility in case of electric shock, the metallic part on the spark plug closure shall preferably keep close with the unpainted metallic part on the motorcycle body. For avoidance of accidental possibility due to electric shock, all the people attacked by cardiopathy or wearing myocardium frequency modulator should not do this.

Shutdown of Engine

1. Examine fuel reserve in the fuel oil tank;
2. Examine intermittent spark of the igniting system; and
3. Examine idle running of engine.

Notes:

You preferably contact the authorized dealer prior to intend to make any servicing. If motorcycle falls into the warranty period, make sure to contact the dealer before you are ready or intended to repair it by yourself. Otherwise, you will possibly loss basis of warranty claim.

Troubleshooting

Troubles		Causes	Remedies
The Engine cannot start or suddenly shut down during running	No oil can be found in the carburetor	<ol style="list-style-type: none"> 1. No oil in the oil tank 2. Switch of oil tank not opened 3. Clogged switch of oil tank 4. Clogged needle valve hole of the floating switch chamber 5. Clogged the main measuring hole 	<ol style="list-style-type: none"> 1. Fill with oil 2. Open the switch 3. Clean the oil tank and its switch 4. Remove to clean the carburetor 5. Remove to clean the carburetor
	Oil can be found on the carburetor High - voltage wire can normally ignite but the spark plug cannot ignite.	<ol style="list-style-type: none"> 1. Oil dirt on the spark plug 2. Broken magnetic core of spark plug or fractured electrode 3. Carbon accumulated on the spark plug 4. Incorrect clearance of the spark plug 	<ol style="list-style-type: none"> 1. Remove to clean it and dry. 2. Replace the spark plug. 3. Remove the carbon. 4. Adjust the clearance.
	Oil can be found on the carburetor The spark plug can normally ignite but the cylinder compression is bad.	<ol style="list-style-type: none"> 1. Leakage from cylinder head gasket or cylinder gasket 2. Loosening spark plug 3. Piston ring jammed 4. Excessively worn piston or piston ring or broken piston rings 5. Excessively worn cylinder 6. Leakage from the air inlet pipe 7. Damage oil seal of crankshaft 	<ol style="list-style-type: none"> 1. Tighten the screws or replace the gasket. 2. Tighten the spark plug 3. Remove to clean the carbon on the rings and grooves. 4. Replace the piston and the piston rings. 5. Replace the cylinder block. 6. Tighten or replace the rubber ring. 7. Replace the oil seal.
The engine can unsteadily and unsmoothly run	Abnormal noise of engine	<ol style="list-style-type: none"> 1. Excessively worn cylinder and piston 2. Excessively worn needle bearing on the small end and the large end of the connecting rod 3. Too early ignition 4. Excessive carbon in the combustion chamber 5. Overheated spark plug 	<ol style="list-style-type: none"> 1. Replace the cylinder block and piston. 2. Replace the bearing and relevant parts. 3. Adjust the igniting time. 4. Remove carbon on the cylinder head. 5. Replace the spark plug.
	The engine can unstably run.	<ol style="list-style-type: none"> 1. Water or dirty in the carburetor 2. Clogged oil channel 3. Leakage from the crankcase 4. Leakage from the connecting point between the carburetor and the engine 5. Too thick or too dilute mixing gas 	<ol style="list-style-type: none"> 1. Clean the carburetor. 2. Blow - off through or replace the oil pipe. 3. Replace the oil seal. 4. Tighten the screws. 5. Adjust the carburetor.
	Overheated engine	<ol style="list-style-type: none"> 1. Too long at low - speed shift 2. Too heavy load or too long running under heavy load 3. Too thick or too dilute mixing gas 4. Unqualified lube oil of engine or lack of oil in transmission box 5. Slipping clutch 6. Too tensioned chain 7. Braking device not released 	<ol style="list-style-type: none"> 1. Shifting or control time. 2. Control load and intermittently taking a break for cooling down. 3. Adjust the carburetor. 4. Replace with qualified lube oil and shifting 5. Adjust the free stroke or replace clutch box, friction disk and spring. 6. Adjust the tension. 7. Adjust the clearance of the braking device.

Storage

If the motorcycle is not in use for a long time in the winter or the other seasons, use suitable materials, equipment or technology to specifically maintain it.

Motorcycle

When the motorcycle is not in use for a long time, properly make preparation as follows: Clean the entire motorcycle. Support the motor on the central supporting bracket and place it on the hard and even ground to prevent the motorcycle rolling. And then, always left turn the motorcycle grip and lock the operating device. Finally, remove the igniting key for purpose of storage safety. Meanwhile, select a place suitable for storage for a long time. Thoroughly examine the motorcycle if you want to re - use it to ensure that performance of all the parts of the motorcycle is normal for service.

Fuel

Thoroughly drain the oil tank before storage of the motorcycle. Gasoline is flammable even explosive under a certain condition. Therefore, the motorcycle must not keep close with ignition source and it shall not be parking near easily spontaneous - combustion substances such as grain, coal, and cotton etc. Otherwise, the fuel in the motorcycle will easily result in fire hazard once contact with open flame.

Tire

Fill the tire by a normal air pressure value. Keep clean for the outside of the tire. Avoid insolation for a long time. Meanwhile, pay attention to moisture prevention. Avoid contact with acid, alkali, and oil for prevention of tire corrosion.

Battery

When the motorcycle is not in use for a long time, remove the battery from the motorcycle. Fully charge it and then keep away from children. Charge it once a month in summer and once two months in winter. If the battery is placed on the motorcycle for a long time, please charge it once a month.

Procedures during Battery Storage

Monthly examine electrolyte level. If the electrolyte level drops, please fill with distilled water or pure water immediately up to the maximum level. Never fill with electrolyte or tapping water.

Always keep the battery clean. If electrolyte contacts motorcycle, terminal, and lead, it will result in corrosion. If corrosion can be found, please flush with fresh water immediately and apply with grease after drying.

The engine failing to start, weak sound of horn, and non - flashing turning lamp shows lack of electricity capacity. Here, you should immediately charge for 15 ~ 20 hours. Pay attention that the battery not in use for a long time under thoroughly discharging situation may possibly be damaged.

When the polar plate is white, the battery is under thoroughly discharging situation, or the electrolyte level is below the lower limit, or it cannot be recovery through charging after not in use for a long time, its service life is up.

Procedures for Service to Return Motorcycle

1. Clean the entire motorcycle
2. Remove the spark plug. Step down the kick - starting rod to run the engine for several times and then install the spark plug.
3. Re -install the battery

Notes:

Make sure to first connect the positive pole and then negative pole.

4. Adjust the tire air pressure according to section of "Tire" in this manual.
5. Lubricate the motorcycle according to instructions in this manual.
6. Make examination before driving according to this manual

	Items	Parameters or Type
Dimensional Parameters	Model	CCW-MISFIT-250 / THA MISFIT
	Dimensions (L x W x H) in mm	1920X760X1070
	Wheelbase in mm	1320
	Minimum ground clearance in mm	150
	Diameter of turning circle in mm	4100
	Castor angle in degree	27
	Turning angle of steering grip in degree (left / right)	48
Mass and Volume	Mass of complete motorcycle in kg	120
	Maximum laden mass in kg	150
	Axle load in N (front / rear)	733/1129
	Oil tank volume in L	15
Engine	Model	167FMM-M
	Type	Single - cylinder, 4 - stroke, air - cooled
	Bore x Stroke (mm)	56.5*49.5/63.5*62.2/67*65
	Total displacement in ml	124/197/229
	Compression ratio	9.0:1 /9.0:1 /9.2:1
	Maximum power @ revolution in kW (r / min)	11.5kw/7000
	Nominal power @ revolution in kW (r / min)	6.5/7800
	Maximum torque @ revolution in kW (r / min)	16/6000
	Minimum fuel consumption ration in g / kW.h	367
	Idle Speed - load steady revolution in rpm	1500±100
	Igniting method	C.D.I
	Starting method	Electric starting / kick starting
	Lubricating method	Pressurized and splashing
	Type of acceptable oil	10W/40 (Air Cooled Oil is best)
	Fuel	87 Octane or higher (lead free gasoline)
	Type of carburetor / oil injector	Flat - suction plunger type
	Type of air filter	Polyester foam plastic filter element
	Air distribution method	Middle - mounted cam valve type
	Type of clutch	Wet normal-pressure, multi-disc type
	Transmission Device	Type of transmission
Primary gear reduction ration		4.056
Last gear reduction ration		2.533
Transmission ration Shift I		2.769
Shift II		1.822
Shift III		1.400
Shift IV		1.130
Shift V	0.960	

Items		Parameter or Type	
Type of Motorcycle	Type of rim (front / rear)	Spoke / spoke	
	Specification of tire	Front	90/90-18
		Rear	120/80-16
	Tire air pressure (front / rear) in kPa		225/225
	Type of braking device	Front	Disc type
		Rear	Disc type
	Braking maneuvering method	Front	Hand Actuated
		Rear	Foot Actuated
	Type of vibration isolator (front / rear)		Spring oil damp / Spring oil damp
	Model of spark plug		A7RTC (Alternative part numbers D8RTC / D7EA / D8RC)
Electrical system	Type or specification of headlight	Semi - closed 12V 35W / 35W	
	Turning lamp	12V 10W	
	Braking lamp / rear position lamp	12V 21W/5W	
	Front position lamp	12V 3W	
	Instrument pilot lamp	12V 2W	
	Specification of fuse	15A	
	Battery	12V 7Ah	
	Model or type of horn	Electromagnetic vibrating type, basin - shaped 12V 1.5A 100dB(A)	
	Model or type of speed meter	Magnetic induction type	
	Type of radio frequency immune device	Shielded spark plug ignition disturbance inhibitor + inhibited spark plug	
	Braking performance	GB 20073-2006	
	Braking force in N	Front	≥440
		Rear	≥584
	Acceleration noise in dB(A)		≤77
	Exhaust emission pollutant, working condition method in g / km		CO ≤5.5 HC ≤ 1.2 NO ≤0.30
Performance of complete motorcycle	Maximum speed in km / h	≥80	
	Performance in s	≤15	
	Climbing capacity in degree	≥22	
	Economical oil consumption in L / 100km	≤2.10	
	Minimum steady speed in km / h	≤22.0	
	Taxing distance in m	≥200.0	
	Starting - out accelerating time in s	≤14.0	
	Overriding accelerating time in s	≤13.0	
	Side - rolling slope angle in degree, brace rod	Left	≥9
		Right	≥5
	Side stand parking in degree (left / right)	≥8	
	Front - rolling slope angle in degree, brace rod	≥6	
	Side stand parking in degree	≥8	
	Service Intervals in Miles	≥3000 (≥500 for initial break-in service)	
	Maximum allowable mileage after first valve check	≥12000	
Light emitting strength of headlight in cd	≥10000		

Warranty Card (for User's Archive) Warranty Serviced by local Distributor

Type of Motorcycle	Engine S / N
Frame Number	Color
Manufacturing Date	Selling - out Date
User's Name	Contact Telephone
Age	Gender
Degree	Vocation
Purpose of Purchasing Motorcycle	Annual Income

Address

Post Code	Invoice Number
-----------	----------------

Sold by (Sealed)

Contact Person	Contact Telephone
----------------	-------------------

Address

Warranty by (Sealed)

Contact Person	Contact Telephone
----------------	-------------------

Address

Please send this sheet to your local dealer / distributor.

Warranty Card (for User's Archive) Warranty Serviced by local Distributor

Type of Motorcycle	Engine S / N
Frame Number	Color
Manufacturing Date	Selling - out Date
User's Name	Contact Telephone
Age	Gender
Degree	Vocation
Purpose of Purchasing Motorcycle	Annual Income
Address	
Post Code	Invoice Number
Sold by (Sealed)	
Contact Person	Contact Telephone
Address	
Warranty by (Sealed)	
Contact Person	Contact Telephone
Address	

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