

CFMOTO

CF150T-6A
CF125T-22A **Service Manual**

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FOREWORD

This manual contains an introductory description of procedures for inspection, maintenance, overhaul, disassembly & assembly, removal and installation of components and parts, troubleshooting and service data together with illustrations of Glory Model CF125T-22A and CF150T-6A

Chapter 1: general service information, tools, vehicle structure and technical data.

Chapter 2: main point of inspection, adjust and maintain, repair.

Chapter 3: disassembly of parts and components, installation, overhaul and troubleshooting.

The manufacturer reserves the right to make improvements or modifications to the products without prior notice. Overhaul and maintenance should be done according to the actual state and condition of the vehicle.

Chunfeng Holding Group Hangzhou
Motorcycles Manufacturing Co., Ltd
Technician Dept.
Mar. 2008

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Conversion Table

Item	Example	Conversion
Pressure	200 kPa (2.00kgf/cm ²) 33kPa (250mmHg)	1kgf/cm ² =98.0665kPa 1kpa=1000Pa 1mmHg=133.322Pa=0.133322kPs
Torque	18N · m (1.8kgf · m)	1kgf · m=9.80665N · m
Volume	419ml	1ml=1cm ³ =1cc 1l=1000cm ³
Force	12N (1.2kgf)	1kgf=9.80665N

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Operation Attention

Safety cautions

Cautions Exhaust contains toxic ingredients. Do not run the engine in closed places or places with poor ventilation for a long time.



Cautions The liquor (dilute sulfuric acid) in Battery is strong corrosive; it may burn the skin and blind the eyes when it contacts them. In case of contact, please wash it with a great deal of clear water immediately, and receive medical treatment in hospital. Besides, please also wash it by great deal of clear when it contacts the clothes, for avoiding skin burn. The Battery and Battery liquor must be stored strictly, away from where children can touch. The Battery and Battery liquor must be stored strictly, away from where children can touch.



Cautions Uniform (pilot uniform etc), cap, safety boots suitable for the operation must be worn, and the safety articles such as dustproof goggles, dustproof respirator and gloves shall be worn for protection when necessary. .



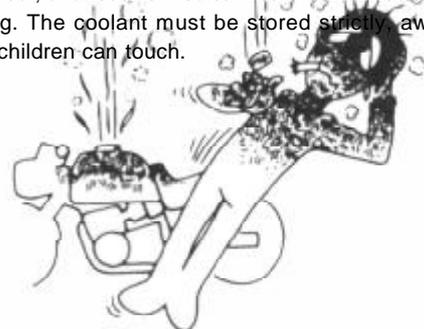
Cautions When the engine just stops, the temperature of engine, muffler is still high; please do not touch them with bare hands, for avoiding burn. Please wear uniform with long sleeves as well as gloves when maintaining.



Cautions The coolant is poisonous, please do not drink it, do not let it contact the skin, eyes neither clothes. In case it contacts the skin or clothes, please suds it immediately. When it contacts the eyes, please wash it thoroughly with a great deal of clear water immediately, and receive medical treatment in hospital. In case the coolant is drunk by mistake,



Cautions The coolant is poisonous, please do not drink it, do not let it contact the skin, eyes neither clothes. In case it contacts the skin or clothes, please suds it immediately. When it contacts the eyes, please wash it thoroughly with a great deal of clear water immediately, and receive medical treatment in hospital. In case the coolant is drunk by mistake, please try to vomit it out, and receive medical treatment immediately after gargling. The coolant must be stored strictly, away from where children can touch.



Cautions The Battery may produce combustible and explosive hydrogen when it is being charged. So it may explode if there is flame or electric spark. So please charge it in the place with nice ventilation.



Cautions The personnel shall make them be aware of each other from time to time when operating for safety confirmation.

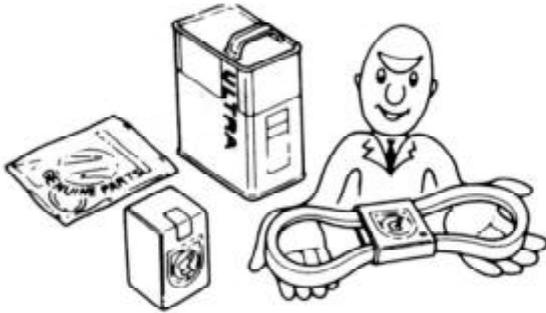


Cautions: Do not let the turning or movable pieces such as rear wheel, clutch etc, clip your hands or clothes when maintaining.



Disassembly&installation

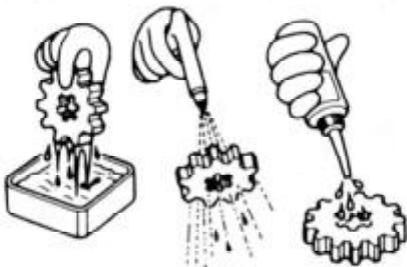
- Must use CFMOTO genuine parts or recommended parts for components, lubrication or grease.



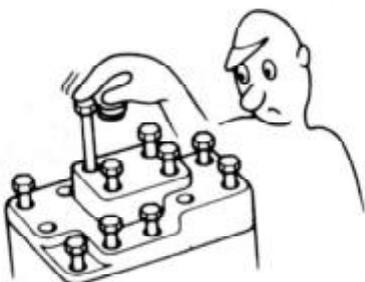
The parts of each system shall be arranged and stored separately, so that the parts can be assembled to the original places.



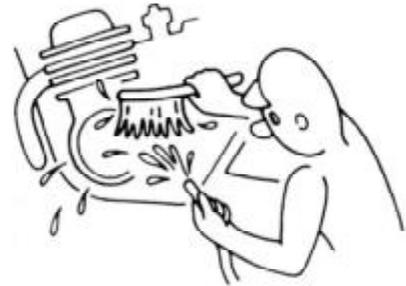
- The parts shall be washed and the cleanser shall be blown away by compressed air prior to determination when they are disassembled and inspected. The working surface shall be lubricated before assembly.



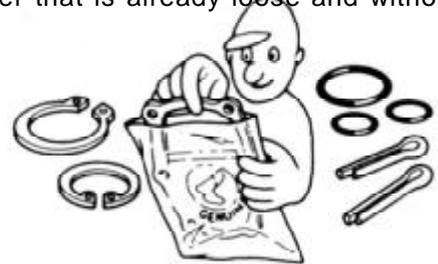
- Insert and arrange the bolts one by one and make sure the insertion volume of each bolt is equal before inserting them, when the bolt length is unidentified.



- Please clean the dirt, dusts on the vehicle before maintenance.



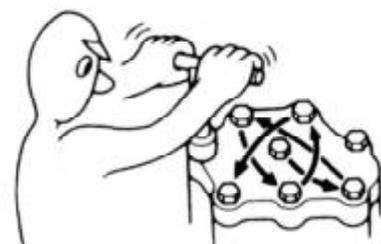
- The gasket, O-ring, piston pin retainer and split pin must be renewed after disassembly.
- The elastic retainer will deform if it is opened too wide upon disassembly, then it will easily fall off when assembled again. Please do not use the elastic retainer that is already loose and without elasticity.



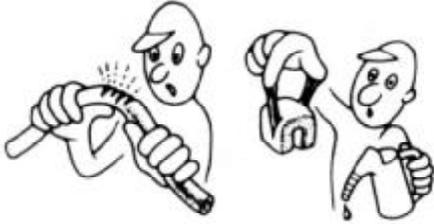
- Inspect the necessary sites upon disassembly, measure the relevant data, so that the original status can be resumed after assembly.



- The fasteners such as bolts, nuts and screws shall be pre-fastened, and then be fastened on the diagonal according to regulated fastening torque in the principle of from big to small, from inside to outside.



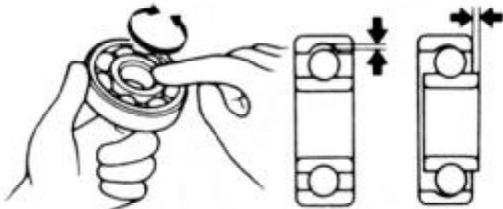
- The recommended lubricating grease must be applied or injected in the appointed positions.



When disassembling the pressed ball bearing, the disassembled bearing must not be used again if the balls are forced for disassembly.



The installation direction of single-sided dustproof bearing shall be paid attention to upon disassembly. The surface of open-type or dual-side dustproof bearing that is with the sign of manufacturer, dimensions shall face outside upon installation.



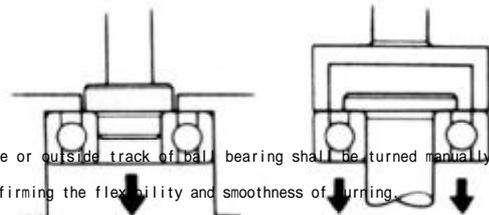
- The side with chamfer shall face the impact direction when installing the circlip. The circlip that is loose already or without elasticity shall not be used again. Rotate the circlip after assembly, for confirming that it is installed in the groove properly.



- The rubber parts shall be checked whether they are aged upon disassembly, renew them in advance when necessary. Besides, try not to make volatile oil, grease etc attach on the rubber parts, for they are not resistant to corrosion of gasoline or kerosene.



- Proper special tools must be applied to the operations which require special tools



The inside or outside track of ball bearing shall be turned manually, for confirming the flexibility and smoothness of turning.

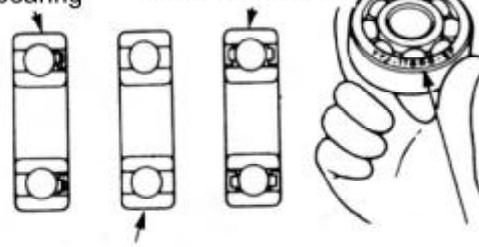
The parts that are loose axially or radially shall be renewed. The parts that are unsmooth shall be washed with oil, and the parts that are not repaired after washing shall be renewed (the dual-side dustproof type cannot be washed)

Press it into the machine or axis, and the bearing shall be renewed if the pressed part is not tight enough.

Single-sided dustproof bearing

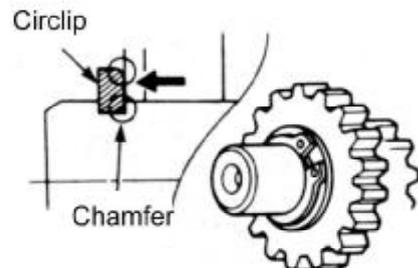
Dual-sided

dustproof bearing



Open type bearing

Do not let the bearing race turn back when blowing the ball bearing by compressed air after washing. If the bearing race turns back, its high back turning speed will be beyond the limit that may result in damage of bearing. The bearing shall be lubricated with engine oil or grease before assembly.



1. Maintenance

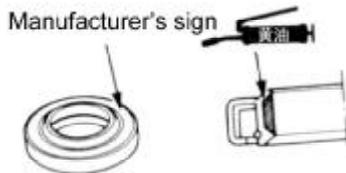
1

- Each fastening part must be inspected whether they are tightened and work well after assembly.

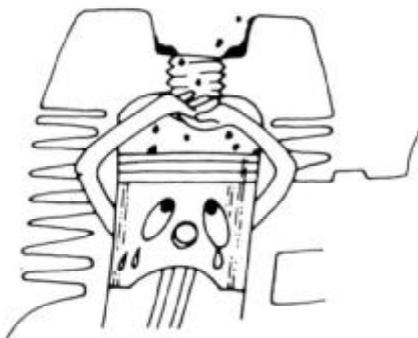


The side of oil seal with manufacturer's sign shall be installed facing outside (the direction without oil).

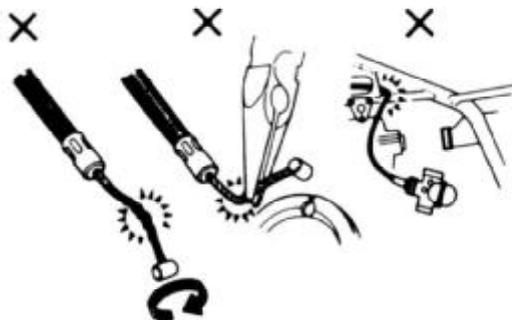
- Avoid the crimp of oil seal lip when assembling, do not let the burrs damage the oil seal lip.
- The oil seal lip shall be applied with grease before assembly.



- Avoid the entry of dusts, dirt into the engine or the oil pressure system of brake.



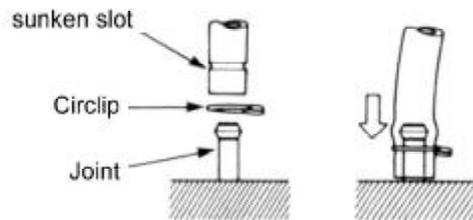
- The stayed cables shall not be over contorted or bent. Deformed or damaged stayed cables will cause malfunction or dilapidation.



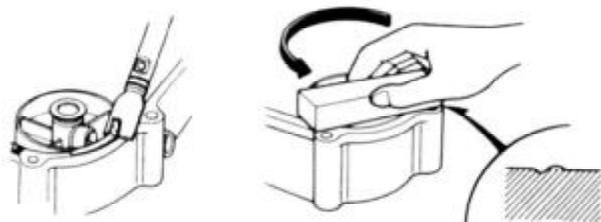
- The brake fluid and coolant may damage the application surface, plastic parts, rubber parts etc. Do not let the fluid attach to such parts. In case of attachment, wash it immediately with water.



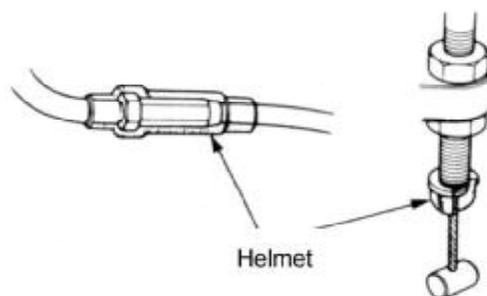
- The tube shall be inserted to the base of joint when installing the tube parts. If there is tube clip, the tube clip shall be installed in the sunken slot of tube. The tube that is without tightness upon installation shall be renewed.



- The gasket attached to the combination surface of each cabinet of engine shall be cleaned before assembly. The impact mark on the contact surface must be removed by whetstone evenly.



- When assemble the helmet type parts, the helmet must be inserted into the groove if there is groove.



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Location of Numbers

CF150T-6A

CF125T-22A

VIN Number: **LCETDKP6~**

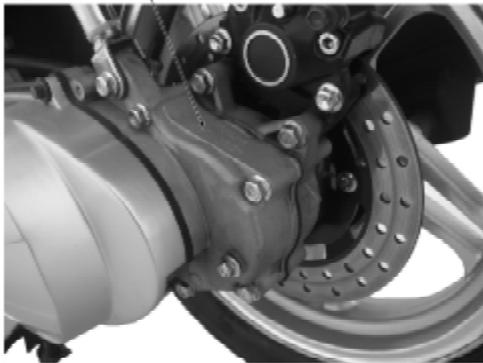
LCETDJPM~

Engine Number: **1P58MJ-A(2)~**

1P52MI-B(2)~



Location of Engine Number



Location of VIN Number



Table of Main Parameters

Item		Parameter		
Name and model		CF150T-6A / CF125T-22A		
Length		1950mm		
Width		715mm		
Height		1195mm		
Wheelbase		1320mm		
Engine model		1P58MJ-A(2) / 1P52MI-B(2)		
Total displacement		152.7ml / 124.6ml		
Fuel type		Above 93#		
Gross weight		138kg		
Number of passenger		2 Persons(Incl: Driver)		
Rated load		150kg		
Tyre specification	Front-wheel	100/80-14 M/C 48L		
	Rear wheel	120/80-14 M/C 58L		
Minimum ground Gap		130mm		
Minimum turning diameter		4500mm		
Engine	Startup mode		Electronic Starting	
	Engine model		4-Stroke Gasoline Engine	
	Cylinder quantity and distribution		Single-cylinder, horizontal	
	Model of combustion chamber		Hemisphere	
	Valve drive model		OHC Chain Drive	
	Bore × Stroke		58 × 57.8mm	52.4 × 57.8mm
	Compression ratio		11 : 1	10.3 : 1
	Max. power		9.0kW/8500r/min	6.5kW/8500r/min
	Max. torque		10.8N · m/7250r/min	8.0N · m/7000r/min
	Air distribution Phase	Inlet valve	opening	0° (1mm)BTDC
			closing	30° (1mm)ABDC
		Outlet valve	opening	35° (1mm)BTDC
			closing	0° (1mm)TDC
	Lubricating method		Pressure, splashing type	
	Type of lubricating oil pump		Rotor type	
Type of lubricating oil filter		Full flow filtration screen		
Cooling mode		Forcing water cooling		

Item		Parameter	
Air Inlet Device	Type of air cleaner	Paper filter element	
	Throttle Valve	Type	BING: 7226101
		Diameter	26mm
Idle-Air-Control Valve	Type	Siemens ABV379-008	
Transmission	Clutch	Type	Dry, auto-centrifugal
		Starting mode	auto-centrifugal
	Initial Transmission	Gear Type	Bevel
		Gear ratio	3.13/3.77
	Secondary transmission	Gear Type	Bevel
		Gear ratio	3.21
	CVT	Type	V type teeth belt
Starting mode		Automatic CVT	
Transmission Ratio range		2.500~0.800	
Steering Device	Steering angle	Right	39°
		Left	39°
Brake system		Front	Hydraulic Disc brake
		Rear	Hydraulic Disc brake
Shock absorber	Suspension Type	Front	Telescopic
		Rear	Swing arm
Frame type		Tubular	

Table of Maintenance

Lubricating Device

Item		Standard	Operation limit
Capacity	Replace	0.8l	—
	Full Capacity	1.0 l	—
Recommended engine oil (see the original).		<p>• SAE-10W-40、20W-50 are be used exclusively for 4-stroke motorcycle</p> <p>Selection must be made within the following range if substitute is preferable.</p> <p>• API classification: SE or SF grade engine oil.</p> <p>SAE specification: select from the table at right according to the outdoor temperature.</p>	
Oil pump rotor	Gap between external rotor and internal rotor	0.15mm	0.20mm
	The body Gap	0.15~0.23mm	0.25mm
	Gap of end face	0.05~0.10mm	0.12mm

Fuel Device

Item		Standard
Oil supply device	Capacity of fuel tank	Full Capacity:7.5l
	Oil injector	Model: Valeo: 01F023
	Fuel pump	Voltage: DC13.5V
		Pressure:0.25±0.007Mpa
		Flow : ≥35L/h
		Current: ≤2.20A
	Safe Pressure:0.5~0.6Mpa	
Idle rotate speed	1700±170r/min	

Coolant

Item		Standard
Coolant capacity	Full volume	0.77l
	Reservoir volume	0.33l
	Standard density	50 % (rate when using original solution)
Opening pressure of water inlet cap		
Thermostat	Temp. of starting open	71 ± 3°C
	Temp. of fully-open	88°C
	Height when opening	3.5 – 4.5mm

Cylinder Head Valve			Standard	Service limit
Compression pressure of cylinder			700kPa (7.0kgf / cm ²) – 260r/min	—
Valve Clearance	IN		0.05mm	—
	EX		0.20mm	—
Deflection Degree of Cylinder Head			—	0.05mm
Camshaft	Height of cam tip	IN	30.74 – 30.86mm	30.69mm
		EX	30.33 – 30.45mm	30.28mm
Valve rocker	Inner diameter of rocker	IN/EX	10.000 – 10.015mm	10.10mm
	Outer diameter of rocker	IN/EX	9.978 – 9.987mm	9.91mm
Valve/ Valve guide cover	External diameter of valve	IN	4.975 – 4.99mm	4.965mm
		EX	4.955 – 4.97 mm	4.945mm
	Internal diameter of valve	IN	5 – 5.012mm	5.04mm
		EX	5 – 5.012mm	5.04mm
	Clearance between valve rod and guide	IN	0.01 – 0.037mm	0.075mm
		EX	0.03 – 0.057mm	0.095mm
Thrown height of guide	IN/EX	11.9 – 12.1mm	—	
Contact width of valve seat	IN/EX	0.9 – 1.1mm	1.8mm	
Valve spring	Dead length (external/inner)	IN/EX	35.0/32.3mm	33.5/30.8mm

CVT Transmission

Item		Standard	Service limit
Transmission Driving pull	Movable driven face comp.	24.007 – 24.028mm	24.07mm
	Outer diameter of driving face comp.	23.959 – 23.98mm	23.92mm
	Mass roller comp.	19.95 – 20.05mm	19.45mm
Belt width			20.7mm
Clutch driven face	Thickness of friction disc	—	2.75mm
	Inner diameter of clutch outer comp.	124.5 – 124.2mm	125mm
	Dead length of clutch spring	144 – 146mm	140mm
	Outer diameter of driven face	33.95 – 33.975mm	33.92mm
	Inner diameter of movable driven face	34.000 – 34.025mm	34.06mm

Gearbox

Item		Standard
Engine oil	Replacement	0.15l
	Disassembly	0.15l
Recommended Viscosity		SAE 15W-40/SF

Starting Motor

Item		Standard	Service limit
Starting motor	Brush length	10mm	7mm

Camshaft, Piston, Cylinder

Item			Standard (mm)		Service limit (mm)	
			CF125T-22	CF150-6		
Crankshaft	Big end of connecting rod	Axial clearance	0.16 – 0.304		0.5	
		Radial clearance	0.005 – 0.017		0.05	
	Play of crankshaft		—		0.10	
Piston	Piston installing direction		“ IN ” mark in the intake side		—	
	Outer diameter of Piston		52.37-52.39	57.97 – 57.99	52.32	57.92
	Piston pin inner diameter		15.002-15.008		15.04	
	Piston pin outer diameter		14.994 – 15.000		14.98	
	Shaft small end side inner diameter		15.016 – 15.034		15.05	
	Clearance of cylinder between piston		0.02 – 0.04		0.08	
	Clearance of piston & pin		0.002 – 0.014		0.04	
	Clearance of pin & shaft		0.016-0.040		0.06	
	Clearance Piston ring between Piston ring and groove	Piston ring (1)	0.02 – 0.044		0.07	
		Piston (2)	0.02 – 0.044		0.07	
	Piston ring end gap	Piston ring (1)	0.15 – 0.30		0.45	
		Piston (2)	0.10 – 0.25		0.45	
		Oil ring	0.2 – 0.7		0.9	
Installing direction, piston ring		Upper seal		—		
Cylinder	Inner diameter		52.4 – 52.419	58 – 58.019	52.449	58.049
	Upper distortion		—		0.05	
	Roundness		—		—	
	Column		—		0.05	

Front Wheel

Item		Standard	Service Limit
Front wheel	Bending, front wheel shaft	—	0.2mm
	Play of wheel rim	Vertical	0.8mm
		Horizontal	0.8mm
	Tire	Groove	—
Air pressure		225kPa (2.25kgf / cm ²)	—

Rear Wheel

Item		Standard	Service Limit	
Rear wheel	Play of wheel rim	Vertical	0.8mm	
		Horizontal	0.8mm	
	Tire	Groove	—	1.6mm
		Air pressure	225kPa (2.25kgf / cm ²)	—

Brake System

Item		Standard	Service Limit
Front brake	Brake handle free travel	10— 20mm	—
	Brake disc thickness	4mm	3mm
Rear brake	Brake handle free travel	10— 20mm	—
	Brake disc thickness	4mm	3mm

Battery, Charging Device

Item		Standard	
AC Motor	Magnetor	Permanent magnet	
	Type	AC type	
	Output	3-phase AC	
	Charging Coil Resistance(20°C)	0.2-0.3Ω	
Rectifier		Three-phase muller rectification Siliconcontrolled Parallel-connection regulated voltage	
Battery	Capacity	12V7Ah	
	Terminal Voltage	Fully Charging Point	12.8V
		Insufficient Charging	< 11.8V
	Charging Current/time	Standard	0.9A×5~10h
Quick		4A×1h	

Ignition

Item		Standard
Ignition		ECU
Spark Plug	Type	NGK
	Standard	DPR7EA-9
	Optional	
	Clearance	0.8—1.0mm
Ignition Timing	Max Advanced Angle	43°BTDC
Peak Voltage	Ignition Coil	=150V
	Pulse Generator	=0.8V

Lights, Dashboard, Switch, Pick-up Coil

Item		Standard
Fuse	Main	20A
	Auxiliary	10A×2 5A×2
Light, Bulb	Headlight (Hi / Lo)	12V-35/35W
	Brake Light/Tail Light	12V-21/5W
	Turning Light	12V-10W×4
	Odometer Indicator Light	12V-1.7W×3
	Turning Signal Light	3.4W-12V×2
	High Bean Indicator Light	3.4W-12V×1
	P Shift Indicator Light	3.4W-12V×1
Trouble Indicator	1.7W-12V	

Tightening Torque

Item	Torque N·m(kgf·m)	Item	Torque N·m(kgf·m)
5mm Bolt、Nut	5 (0.5)	5mm Screw	4 (0.4)
6mm Bolt、Nut	10 (1.0)	6mm Screw	9 (0.9)
8mm Bolt、Nut	22 (2.2)	6mmSH Bolt with flange,	10 (1.0)
10mm Bolt、Nut	34 (3.5)	6mm Bolt with flange、Nut	12 (1.2)
12mm Bolt、Nut	54 (5.5)	8mm Bolt with flange、Nut	26 (2.7)
		10mm Bolt with flange、Nut	39 (4.0)

Please use standard torque, if without torque value mentioned below table.

1. Lubrication oil should be created on screw thread and contact surface.
2. Replace when self-locking bolts disassembled.

Type	No. of Bolt & Nut	Thread diameter (mm)	Torque N·m (kgf·m)	Remarks
Checking、adjusting				
Check Gearbox oil /drain Bolt	1	8	22 (2.2)	
Engine oil filter cover	1	36×1.5	18 (1.8)	
Drain oil, bolt	1	12×1.5	25 (2.5)	
Spark plug	1	12×1.5	18 (1.8)	
Lubricating system				
Oil plump and mounting bolt	2	6	15 (1.5)	
Screw, oil pump plate	1	3	2 (0.2)	
Cooling system				
Water drain bolt	1	6	8 (0.8)	
Water temperature sensor	1	12×1.5	13(1.3)	
Impeller, water pump	1	7	10 (1.0)	
Cylinder head/head cover				
Cylinder head cover bolt	4	8	30 (3.0)	
Cylinder compound bolt	2	6	10 (1.0)	
Timing sprocket bolt	Short2	YM8	23 (2.3)	
Tensioner spring holder bolt	Long2		23 (2.3)	
Shaft, tensioner set thread pin	2	5	23 (2.3)	
Timing sprocket bolt	1	8×1	9 (0.9)	
Tensioner spring holder bolt	1	8	10 (1.0)	
Shaft, tensioner set thread pin	1	8	13 (1.3)	
Belt CVT system				
Left side cover bolt	5	6	10 (1.0)	
Gearbox nut	1	14×1.5	59 (6.0)	
Clutch special nut	1	28	59 (6.0)	
Clutch nut	1	12×1.25	53 (5.4)	
AC Magneto motor				
AC Magneto motor nut	1	14×1.25	59 (6)	
Flange bolt for casting	8	6	12 (1.2)	
Overriding clutch inner hex bolt	3	6	18(1.8)	

Frame

Type	No. of Bolt & Nut	Thread diameter (mm)	Tightening torque N • m (kgf • m)	Remarks
Engine disassembly				
Engine suspension mounting bolt	2	10	55 (5.6)	
Engine suspension shaft nut	1	10	55 (5.6)	
Front wheel, Front suspension, Steering System				
Handlebar lock nut	1	25	68 (7.0)	
Steering handle mounting nut	1	10	55 (5.6)	
Front wheel axle nut	1	12	80 (8.1)	
Shock absorber mounting bolt (upper)	4	8	40 (4.1)	
Rear wheel ,Rear suspension				
Rear wheel axle nut				
Shock absorber mounting bolt(upper)	1	16	140 (14.3)	
Shock absorber mounting bolt(lower)	2	10	55 (5.6)	
Shock absorber mounting bolt(lower)	2	8	30 (3.1)	
Rear fork mounting bolt	2	10	55 (5.6)	
Brake system				
Front brake disc mounting bolt	5	6	12 (1.2)	
Rear brake disc mounting screw	3	8	26 (2.7)	
Front brake caliper mounting bolt	2	8	30 (3.1)	
Rear brake caliper mounting bolt	2	8	30 (3.1)	
Muffler				
Mounting nut (Front elbow)	2	8	26 (2.7)	
Mounting bolt(Muffler barrel)	3	10	55 (5.6)	
Oxygen Sensor	1	18	60 (6)	
Other				
Screw (Taillight/brake light comp.)	2	4.2	1.8 (0.1.8)	

Special Tool

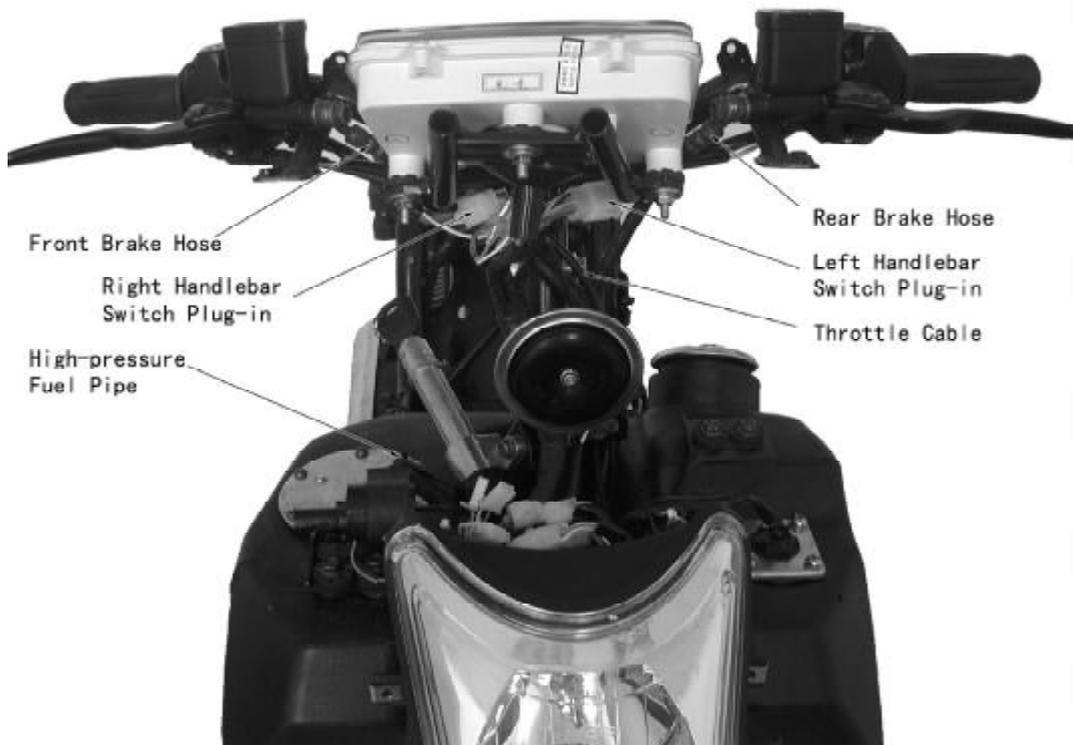
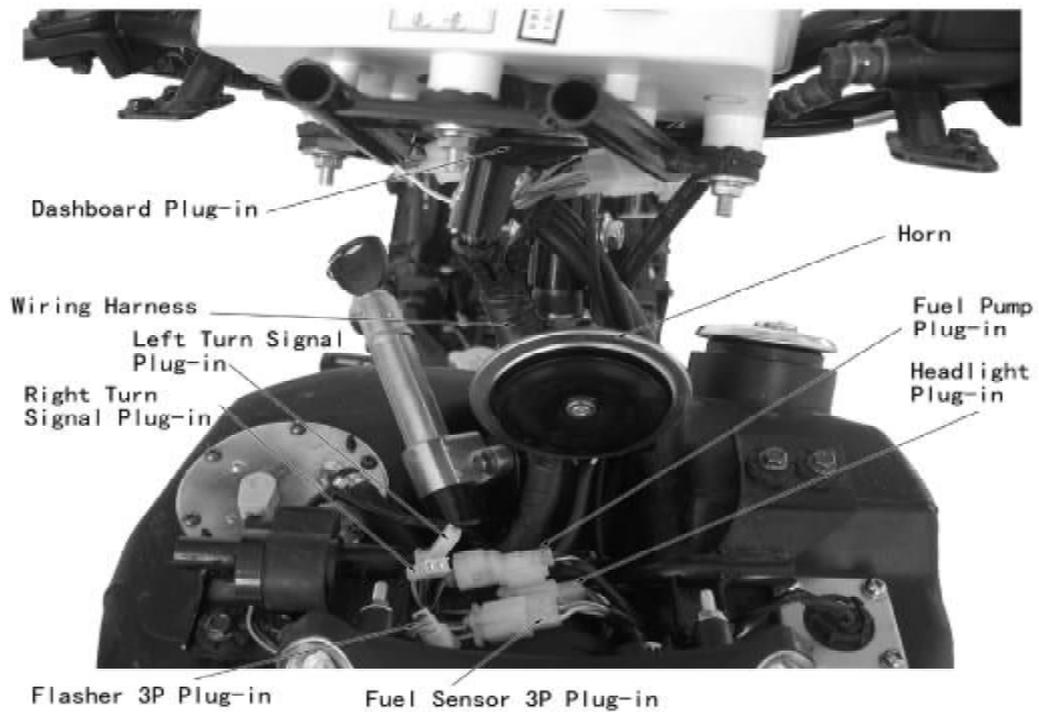
Tool name	Tool No.	Usage
Fuel system		
Adjusting tool for mixed gas screw		Adjusting mixed gas screw
Cylinder cover comp, Valve		
Valve assembly jigs	1P52MI-A-922-020000	Disassemble valve system Repair/clean the valve guide
Valve guide reamer、 5mm	152MI-234-022300-34B	Amend the valve seat
Valve seat cutter		
Valve lapper、 27mm (45° IN)	152MI-236-022301-27	
Valve lapper、 27mm (45° EX)	152MI-236-022301-27	
Belt CVT system		
Multipurpose bracket	1P52MI-A-922-040000	Disassemble nuts, Drive face/clutch cover
Clutch spring press tool	152MI-922-070000	Disassemble nut, driven face
Deceleration system		
Drive shaft press device	152MI-921-070000	Press the drive shaft
Roller Bearing 6202	1P39MB-921-110001	Press driven shaft bearing
Roller Bearing 6201	1P39MB-921-080001	Disassemble bearing
Bearing removing combination set	1P52MI-A-922-050000	
	1P52MI-A-922-060000	Install drive shaft bearing
Roller Bearing 22X50X14	1P52MI-A-922-080000	Install final shaft bearing
Roller Bearing 6301	172MM-921-030000	
Roller Bearing 6004	1P52MI-A-921-020000	
Roller Bearing 6205	1P52MI-A-921-010000	
	1P52MI-A-921-030000	
Ac generator/starting motor		
* Rotor puller	152MI-922-030000	Disassemble stator
Front wheel, Front suspension		
Steering system	519-922-070001	Disassemble wheel bearing
Bearing remover shaft	519-922-070002	Install wheel bearing
Bearing remover head 12mm	519-922-070003	
Press tool handle A	519-922-070004	Disassemble handlebar locknut/bearing adjusting nut
Press tool sleeve28X32	519-922-070005	
Guide tool 12mm	519-922-050001	Disassemble handlebar bearing outer ring
Locknut wrench	519-922-050002	
Handlebar bearing adjusting wrench	519-922-050000	
Bearing removing combination set	519-922-050010	Install top ball retainer
Rotor puller	519-922-050003	
Remover shaft	519-922-050004	Install bottom retainer
Remover hammer	519-922-050005	
* Handlebar bearing retainer installer		Install inner ring
A、 27×40mm	519-922-050006	
Installing shaft	519-922-050007	
* Handlebar bearing retainer installer		
B、 30×50mm	519-922-050008	
Installing shaft	519-922-050009	
Front fork cover, press tool		
Charging, Ignition system		
Peak voltage regulator	519-922-150000	Measure peak voltage

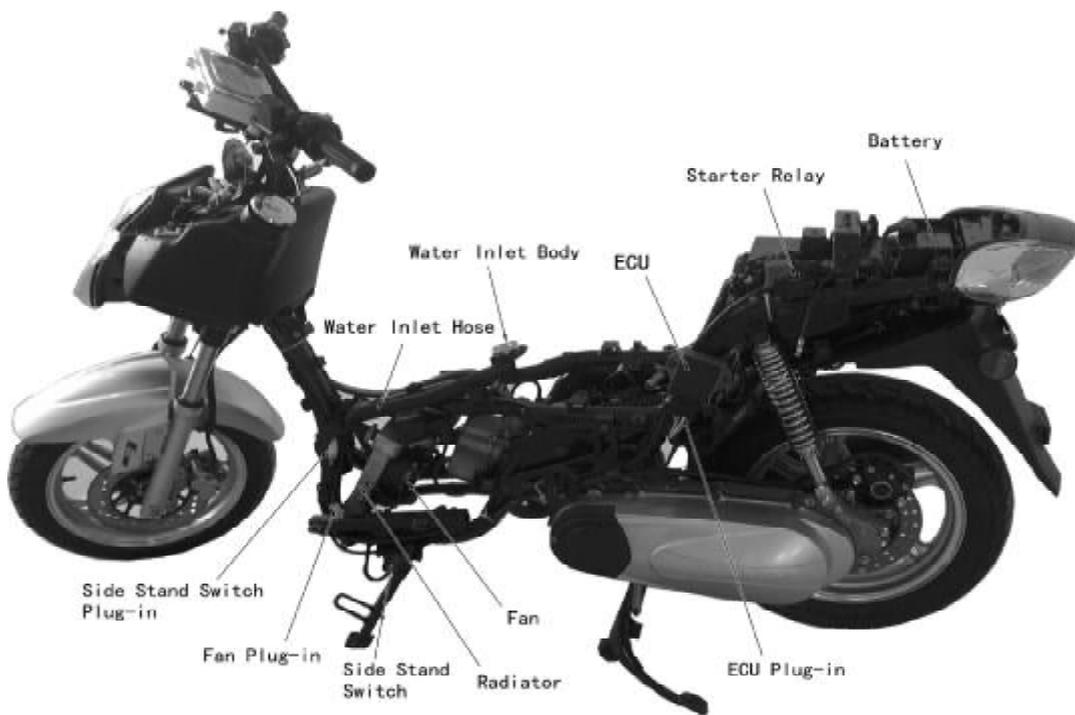
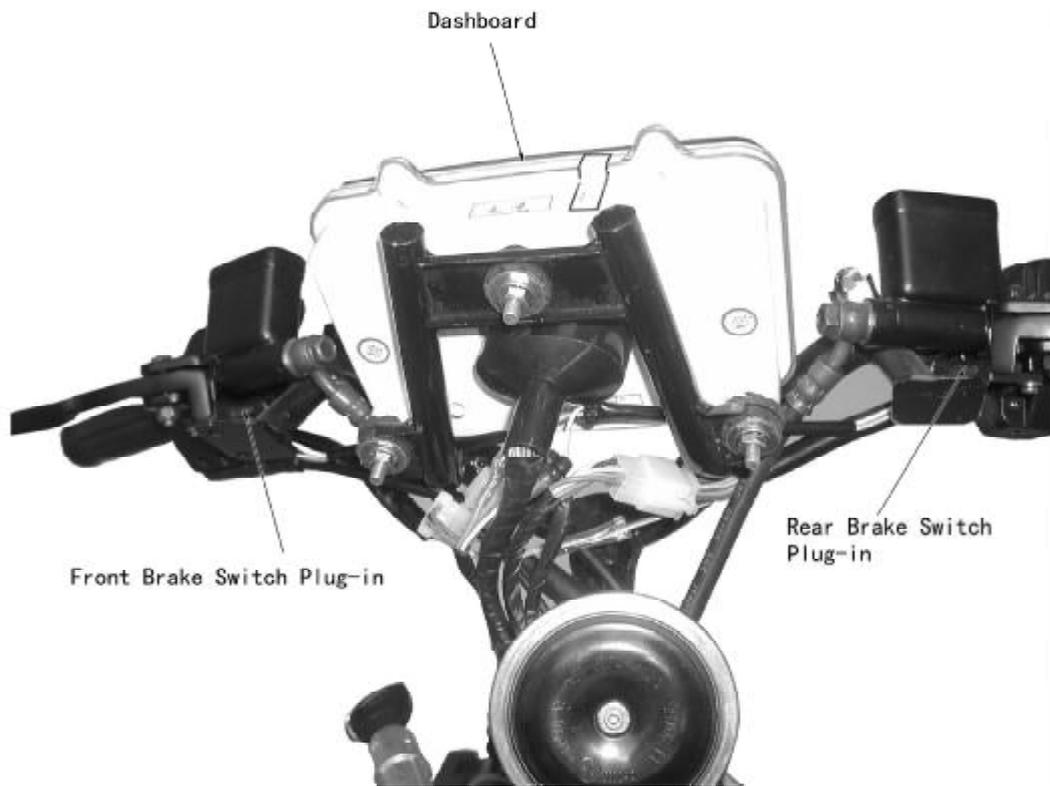
Lubricant, Sealant

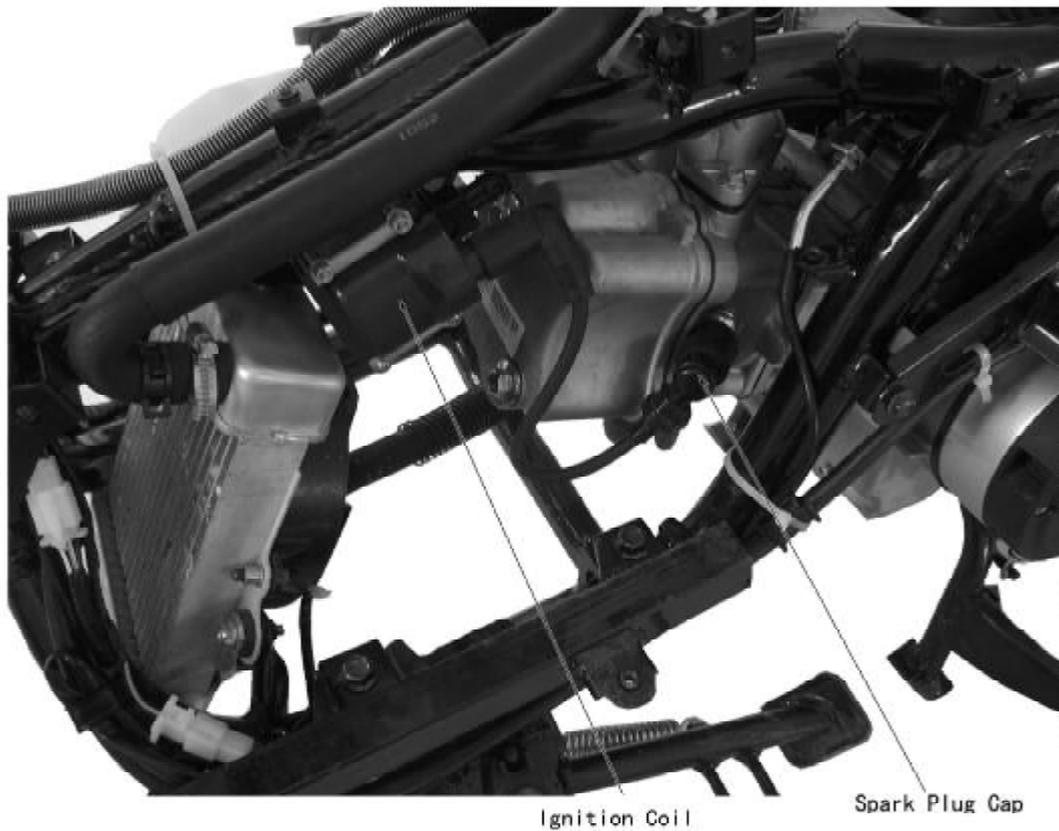
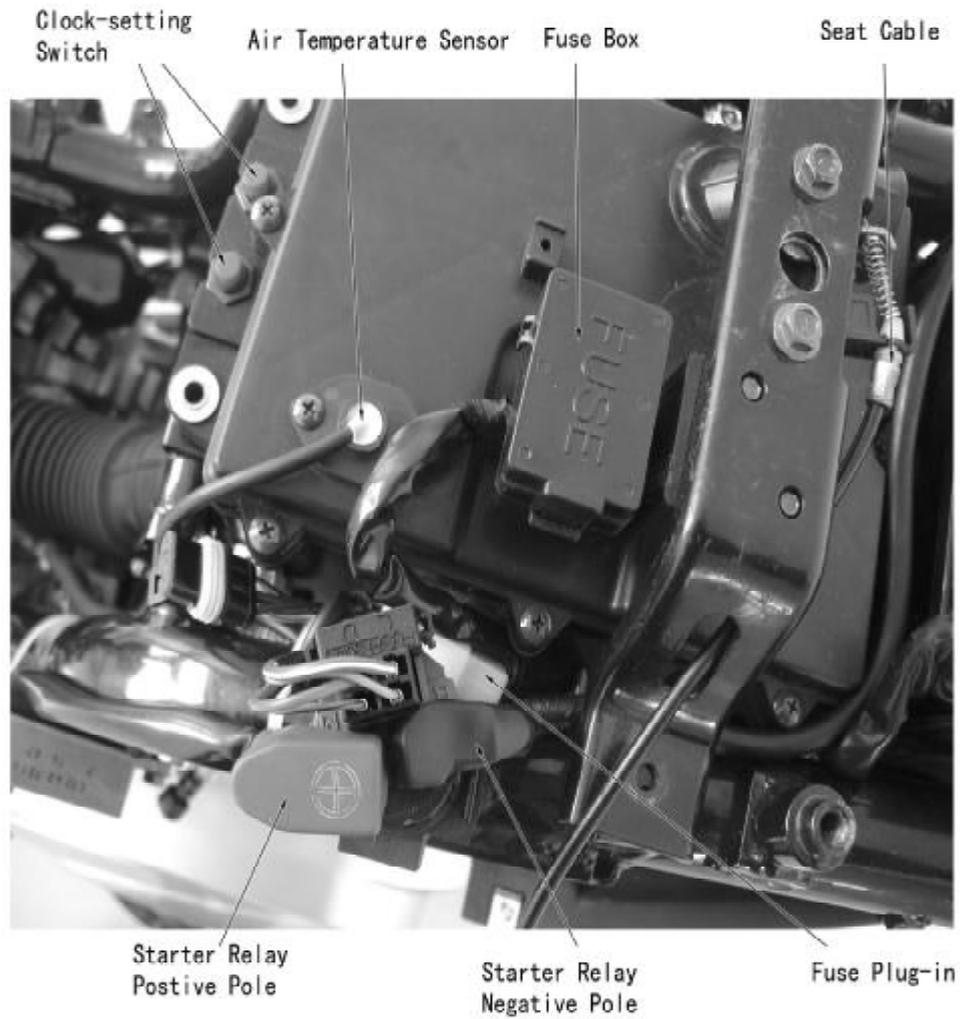
Application Areas	Notes	Grease type
Inner surface, cylinder cover Joint cone of installation, AC generator rotor Bearing/side, connection rod big end Inner side, connection rod small end Drive bearing surface, crankshaft Timing sprocket gear surface, crankshaft Driven gear teeth surface, oil pump Piston pin outside surrounding surface Piston ring groove Piston pin surface Piston ring Camshaft bearing rotating surface Timing sprocket gear surface Valve rock arm shaft surface Sprocket gear surface, oil pump Oil pump comp. Thread/joint surface, drive wheel nut Outside surrounding, oil seal and press Gear surface and shaft part, gear and gear shaft Camshaft surface and surrounding Inner surface, valve arm rock Valve rod		The special SAE standard of 4 cylinder motor: classify of 10w-40 API: SE or SF engine oil
Screw thread part, timing sprocket mounting nut		Tightening agent for screw thread
Ball bearing, driven wheel(6901UU) Needle bearing, driven wheel Movable driven groove wheel running surface, driven wheel	5.0 — 5.5 g (do not apply on driving belt)	Multi-functional Lubrication
Sealing surface, all o-rings Tightening bolt, cylinder body	Do not apply on the sharp point	Sealant

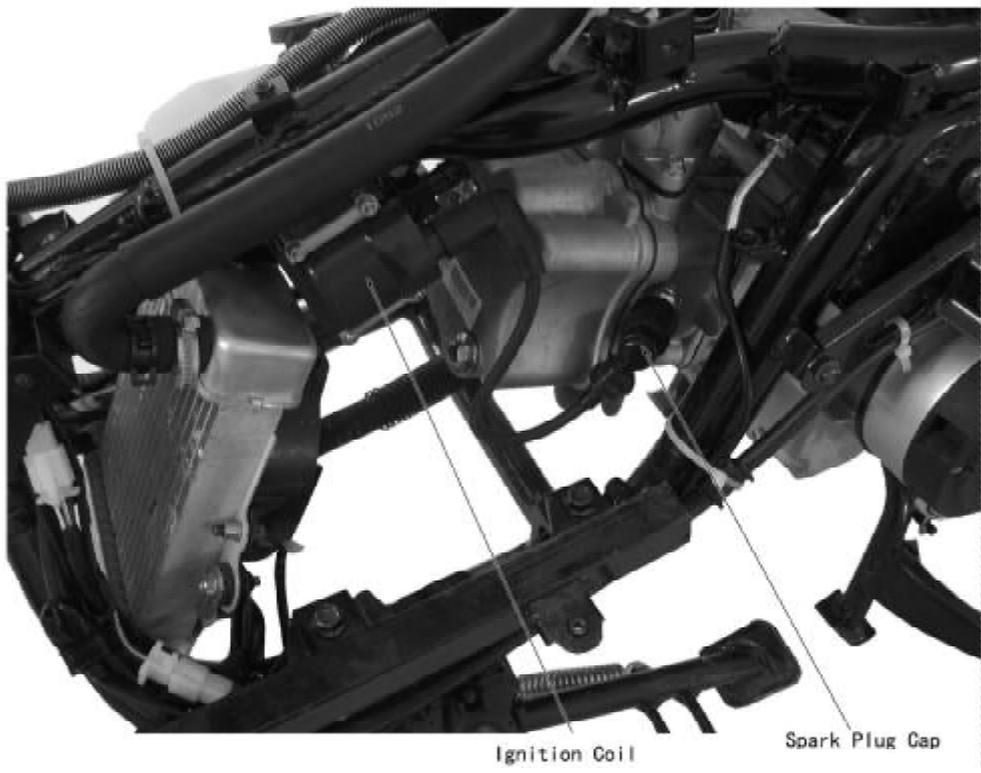
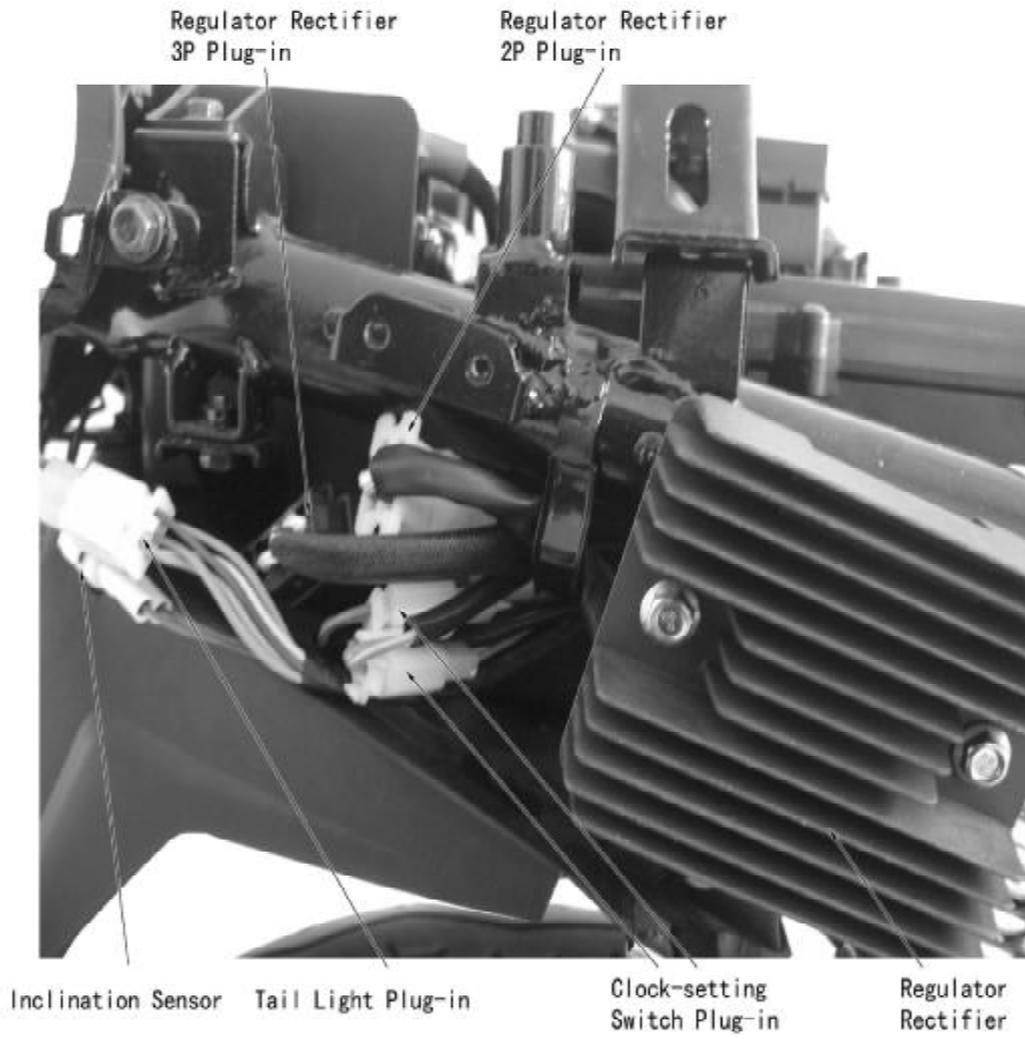
Application areas	Notes	Types
Bearing seat, motor head pipe Lip , front wheel dust-proof seal Joint, throttle cable Throttle handlebar part Pivot, rear pedal(L) Pivot, rear pedal(R) Pivot, side stand Oil seal lip, rear fork Gear surface and running part, counter gear/small gear Axle part, main stand		Multi-purpose lubrication oil
Lip, dust-proof seal, lower part of front shock-absorber		Absorber oil # 5
Inner surrounding, handle bar		Engine oil

Wirings, Pipes and Cable Routing



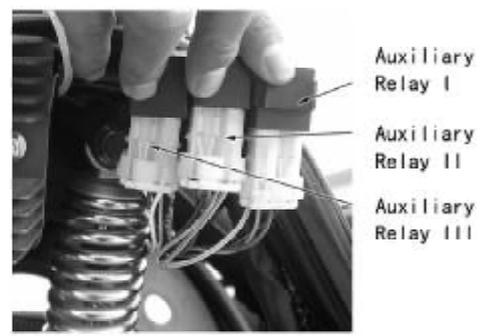
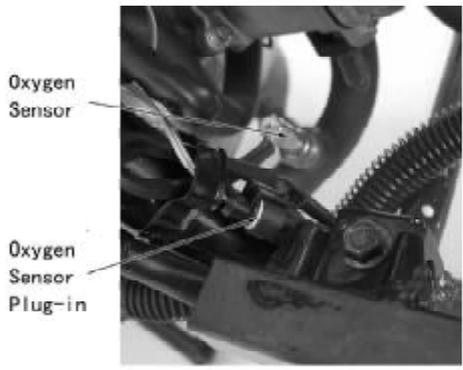
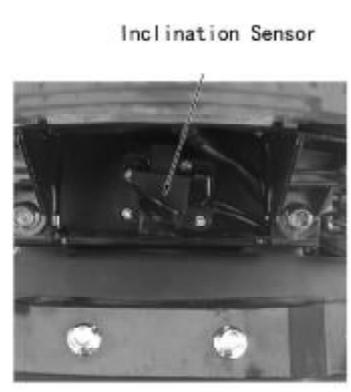
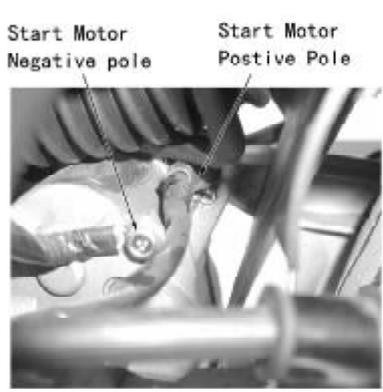
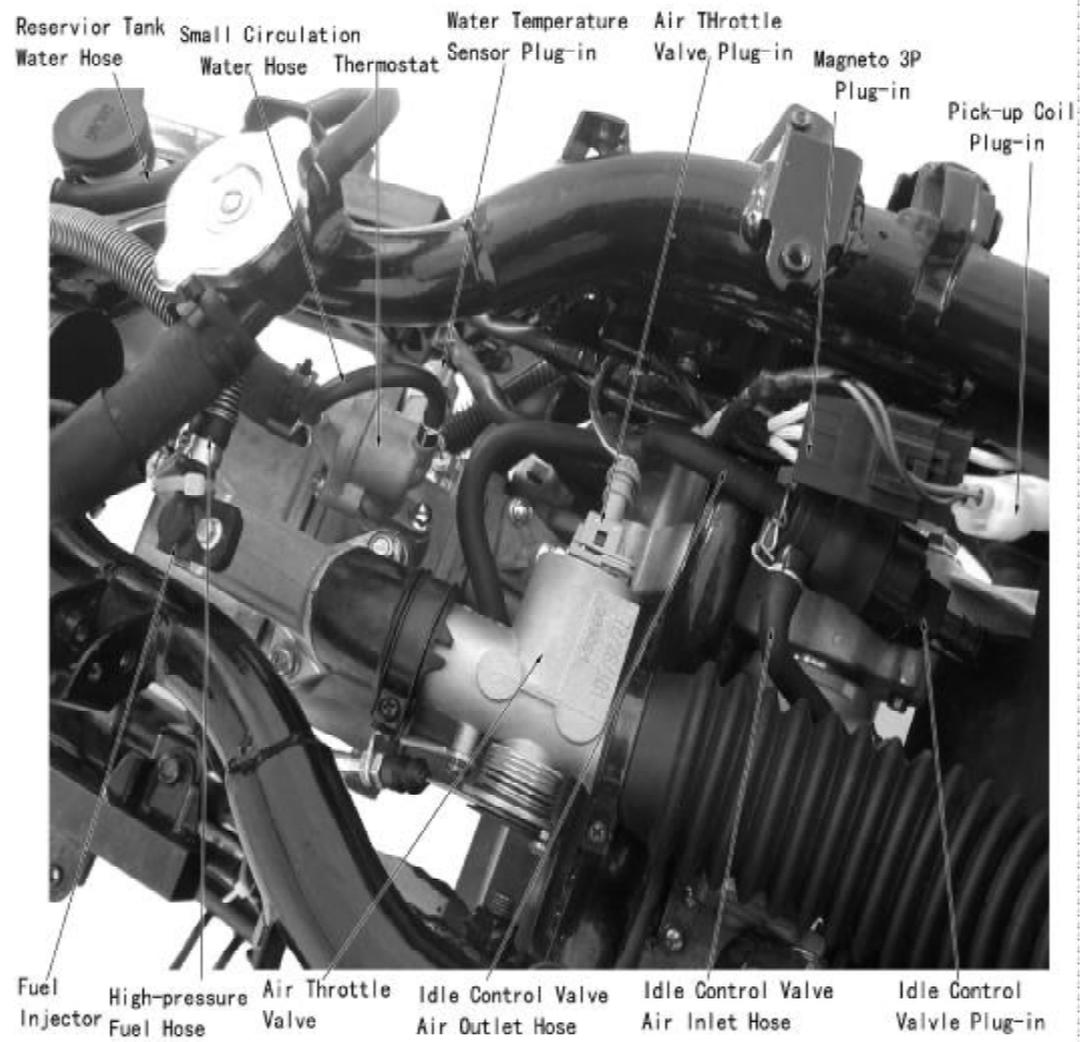






1. Maintenance

1



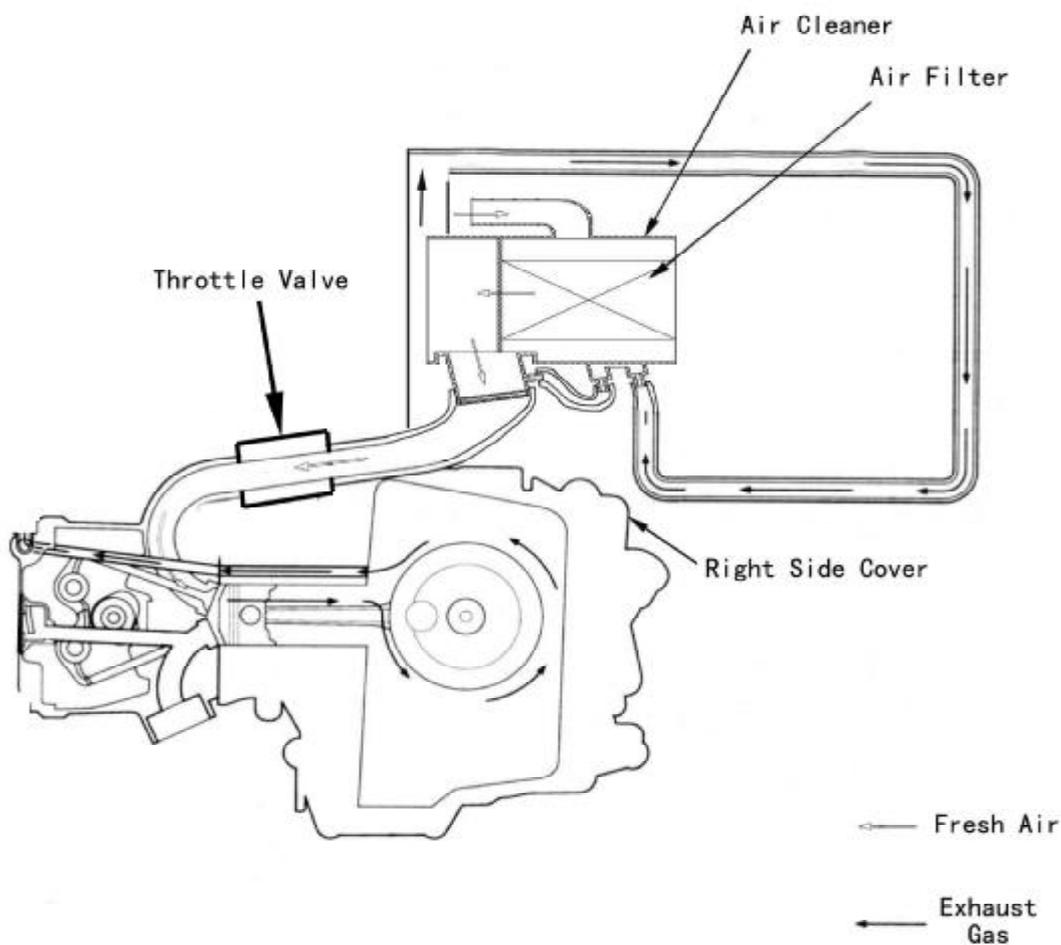
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Expansion prevention device for poisonous gas Secondary Air Supply System

The device is to supply fresh air from small air cleaner to the exhaust pipe so that the not fully burnt combustible mixture continues combustion in the exhaust pipe. In this way the HC, CO and NOx in the exhaust could be converted into harmless CO₂ and water.

To prevent the flow back of exhaust in the exhaust pipe, there is a reed valve in the exhaust air induce channel (in cylinder head cover).

The supply channel switch of exhaust air induce is controlled by a control valve through intake vacuum of the engine.



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Overhaul Info

Operation Cautions

Warning:

Gasoline is highly flammable, therefore smoke and fire are strictly forbidden in the work place. Special attention should also be paid to sparks. Gasoline may also be explosive when it is vaporized, so operation should be done in a well-ventilated place.

Muffler can't be disassembled and installed until it is fully cooled.

- I This chapter is on the disassembly and installation of outer parts, exhaust pipe and muffler.
- I Hoses and cables should be routed properly as per the wiring drawing of cable, hose and bracing cable.
- I When remove and install muffler, replace the gasket with a new one.
- I When muffler is installed, check if there is any exhaust leakage.

Tightening torque

Tail light/brake light screw	1.8 N • m(0.18kgf • m)
Screw ,Rear turning indicator cover	1.8 N • m(0.18kgf • m)
Screw, Tail light cover	1.8 N • m(0.18kgf • m)

Trouble shooting

High exhaust noise

- I Broken muffler
- I Exhaust leakage

Insufficient power

- I Distorted muffler
- I Exhaust leakage
- I Muffler clogged