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start motor goor power		
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fork bent	front wheel shaking
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lay down the brake oil pump flatly, check the level of lig	
lay down the brake on pump harry, eneck the level of he	luiu

Common instruction

Serial locations







chasis number

Main specification (NAC12)

Model name		U.	-200	NAC12
length (mm)		2180	min. wheel radius	5130mm
width(mm)		800	cooling	water
height(mm)		1090	start	electric
wheel base		1510	engine type	4 stroke
Engine type		water cool	cylinder style	double cylinder horizontal
		Double cylider		
displacement		124.6ml	compound stype	overhead camshaft
fuel type		gasoline	dimension x stroke	44×41
Î	front	77	compression ratio	10:1
vehicle weight	rear	88	max. power	9.2kw
i.	ttl	165	max.torque	8.2N.m
seat number		2	final drive ratio	2.9
	front	102	drive style	chain drive
vehicle total weight	rear	138	VIN serial	LFUG4JL
	ttl	240	Engine serial	DD244MI
ground clearance		180mm	Min.idle speed r/min	1500±100
front inclination		30 degree	Ĭ.	

Main maintain data(NAC12)

Please refer to maintain specification if you find no data in below column

2. 3.	Item	standard	limit
lubrication device	U		
Engine oil capacity		1.9L	
	oil exchange	1.6L	
Suggested engine oil		SAE10W/40 API SG	
fuel device		93	
fuel semesitus	total	18.5	
fuel capacity	spare	2.7	
air filter	original resistance	0.15kPa	
carburator	type	PD26JS	
fron	t and rear wheel		
wheel	rim jump radial horizontal		2.0mm 2.0mm
tire	air pressure front whee	90/90-18 225kpa	
	rear wheel	130/90-15 225kpa	
front brake	type of brake liquid	DOT3	
	thickness of brake liquid gasket	6.4mm	
	thickness of disc brake	4	3.0mm
	off-center disc brake		0.3mm
rear brake	thickness brake liquid washer	3	
	thickness of disc brake	4	3.0mm
	disc brake off center		0.3mm
Ignition		2	ic .
spark plug standard		A6RTC	
(contineous low sp	peed drive in winter)	A5RTC	
(contineous high s	speed drive in summer)	A7RTC	
clearance of spark plug	= 1	0.6-0.7mm	¢.
lubrication style		constraint lubrication style	
oil pump style		piston style	
cooling style		water cooling	
fuel device		Ť	
fuel tank capacity		18.5L	
fuel tank spare oil		2.7L	
clutch			
clutch	style	multi-plate wet	
į.	model	five gears transmission	

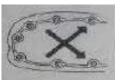
9	item	standard	limit
front, rear wheel			
wheel	rim jump radial		2.mm
	horizontal		2.0mm
	wheel axle bent		0.2mm
tire	air pressure front wheel	0.225PMa	
	rear wheel	0.225MPa	
	size front wheel	90/90-8	
3	rear wheel	130/90-15	
brake			
brake		DOT3 or DOT4	
ignition loop		7	
	resistance value (20°C) once	0.36 - 0.4Ω	
	2nd test without spark plug cap	5ΚΩ	
charging system DC g	generator		
	DC generator style	DC	
		12V	6
lighting, switch, meter			
lighting, electric bulb	front light	12V-35W/35W	
	brake light, taillight	12V-21/5W	
	indicator light	12V-10W×4	
	fuse	15A	
batter	capacity	12V-9Ah	ķ
	voltage ends	13.0-13.2V(20°C)	
	charging current(standard)	0.9A(5h)	

Operation notice items

cylinder gasket, \boldsymbol{O} ring ,clip hoop, open pin etc disassembled, you should replace the new one



when tighten the screw, screw cap, bolt, please follow the first big then small, first side then outside, per the specified fixture torque, on the cross



Please use special currency tool



when parts disassembled, pleas clean it before checking and measuring, pease apply the grease on friction side when assembling.



please apply the special butter on special part. $\,$



please check every fixture and action status after assembled.



please remove the battery cathode before operation



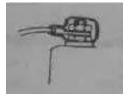
Please check the connection, fixing and assembly status when done please connect the anode when install the battery. please apply the butter after anoding please cover ends completely



Please check the reason and repair it when fuse is burned, then replace the same spec fuse $% \left\{ 1,2,...,n\right\}$



please apply the cover and cap after operation.



the wires.

please check the ends is bent, broken before connecting the plug. the ends are over long or fallen off.

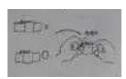
The connection plug must be connected tightly.

please check if the lock up is totally fixed because connection plug is with lock up.

please check if the wires are fallen off.



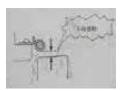




do not nip the wire when installing the part.



Do not fix the wire on the over heat part



Please remove the lock up when disassemble the connection plug with lock up.





Do not bend or over move the tightwire, because the bad tightwire will cause the bad movement.

Torque

standard value

Stanuaru value			
Туре	torque value (N.m)	type	torque value (N.m)
5mm bolt \ nut	4.5~6.0	5mm screw	3.5~5.0
6mm bolt nut	8~12	6mm screw, bolt	7~11
8mm bolt \ nut	18~25	6mm screw, bolt	10~14
10mm bolt nut	30~40	8mm screw, bolt	24~30
12mm bolt, nut	50~60	10mm screw, bolt	35~45

Engine

item	number	screw thread diameter (mm)	torque(N.m)	Remark
flywheel nut	1	10	39.2	
mounting oil pump bolt	1	10	39.2	
cylinder cove bolt	4	6	9.8	
spark plug	1	14	13.4	
oil pump bolt	3	4	4.4	
driven bolt	1	28	53.9	
clutch outer nut	1	10	39.2	
oil adjuster bolt	1	10	17.6	
carburator mounting bolt	2	6	9.8	flange bolt
invalve bolt	4	8	9.8	special bolt
transmission bolt	8	10	13.7	flange bolt
cooling fan bolt	2	6	9.8	

Chasis

Chasis				
item	number	screw thread diameter (mm)	torque (N.m)	Remark
handle mounting bolt	1	10		
steering shank mounting nut	1	25.4		
roundness top washer	1	25.4		
front axle nut	1	12		
rear axle nut	1	14		
disc brake bolt	3	8		
torque shank bolt	1	8		
torque shank nut(side fork legs) exhaust pipe	1 1	10 8		
clip hoop bolt	1	8		
brake tube bolt	2	10		
rear brake arm bolt	1	8		
front transmission top bolt	1	8		
front transmission base bolt	1	8		
front tranmission base nut	1	8		
front suspension locknut	1	8		
front transmission arm mounting nut	1	10		
rear transmission top bolt	1	10		
transmission base bolt	1	8		
rear shock lock nut	1	8		
oil pump cable support bolt	2	5		
engine mounting bolt	1	10		
muffler mounting bolt	2	8	2	

41	- 1	_ 1	١.

4		
tool	code	part(install or remove)
outside handle	00749-0010000	bearing
sleeve wrench 39×41mm	07GMA-KS40100	clutch, driven belt sprocket
clutch spring compressor	07960-KM10000	% - -
bearing drive into tool	07945-GG80000	for driven belt axle bearing drive into
* trunk puller	0735-KG80001	engine driven belt sprocket
movement slip-proof	07725-0030000	engine exterier mounting lock nut
		clutch exterier locknut
pile driver24×26mm	07746-0010700	for driven belt axle bearing drive into
handle wrench	07749-0010000	bearing
pile driver32×35mm	07746-0010100	crankcase(side),rear crankcase (side cover)
pile driver 37×40mm	07746-0010200	crankcase (side),rear crankcase(side cover)
flat reamer 17mm	07746-0040400	engine crankcase(side), beraing, drive belt bearing
flat reamer 15mm	07746-0040300	rear crankcase(side cover) bearing
flat reamer 12mm	07746-0040200	engine crankcase(side)bearing
crankshaft mounting bearing	07965-GM00300	engine cranshaft
crankshaft mounting base	07965-GM00100	□
case puller	07935-KG80001	crankshaft bearing
case puller	07935-GK80000	crankcase divide up
movement bearing puller bearing protector	07631-0010000 07931-1870000	crankshaft bearing
outside handle 52×55mm	0746-0010400	replace crankshaft bearing
flat reamer 20mm	07746-0040500	Д
mounting base	07965-GG70100	install the left bearing seal of crankshaft
crankshaft mounting bearing	07965-GM00300	h .
crankshaft mounting bearing	07965-GM00300	crankshaft bearing, crankcast bearing oil seal
crankshaft protector	07965-GM00100	crankcase installation
outside handle A	07949-0100000	replace crankshaft bearing
locknut wrench A	07916-1870101	top bearing base installation and remove
locknut wrench B	07916-KM10000	top bearing base installation and remove
wheel bearing base separator	07946-GA70000	remove wheel top bearing base ring
bumper compressor accessory	07967-KM10100	disassemble the front bumper
bumper accessory A	07967-GA70102	·
bumper compressor	07GME-0010000	
— compressor screw set	07GME-0010100	
bumper compressor	07GME-0010000	disassemble the rear bumper
— compressor screw set	07GME-0010100	•
* bumper compres sor acces sory	07JME-GW20100	
movement slip proof	07725-0030000	flywheel disassemble and installation
flywheel protector	07733-0010000	remove flywheel

Lubricated parts breakdown

Engine

parts to use	name	remark
cy linder piston& cranksh aft running and s lipage	GP2 (separator oil supplier)	
running and slipage inside the crankcase		

Chasis part

Please suppply the grease on the following parts

You could use the normal butter on normal parts

Please supply the lubricate or lubrication grease on the following unpointed parts in order to raise its service

head stearing bearing



counter teeth side tand pivot rear fork oil seal



headlight wiring



odometer wiring



right indicaleft indicator



clutch switch wiring



fuel sensor wiring



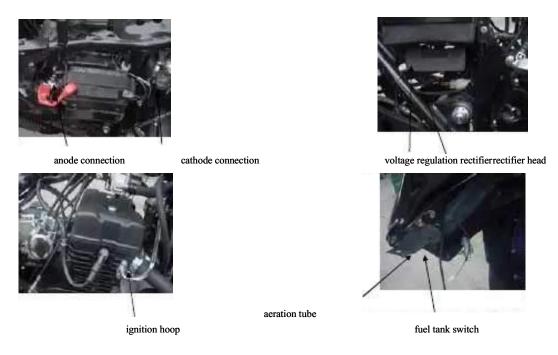
stop accelerator cable start accelerator cable



flameout switch wiring



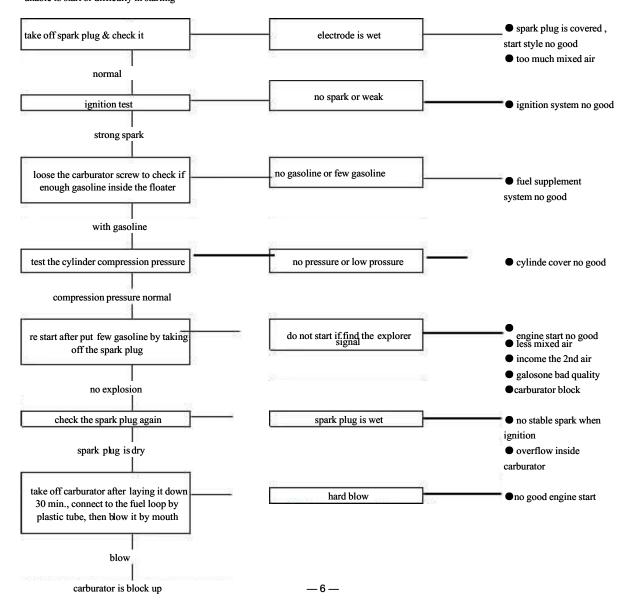
safe box wrinkle

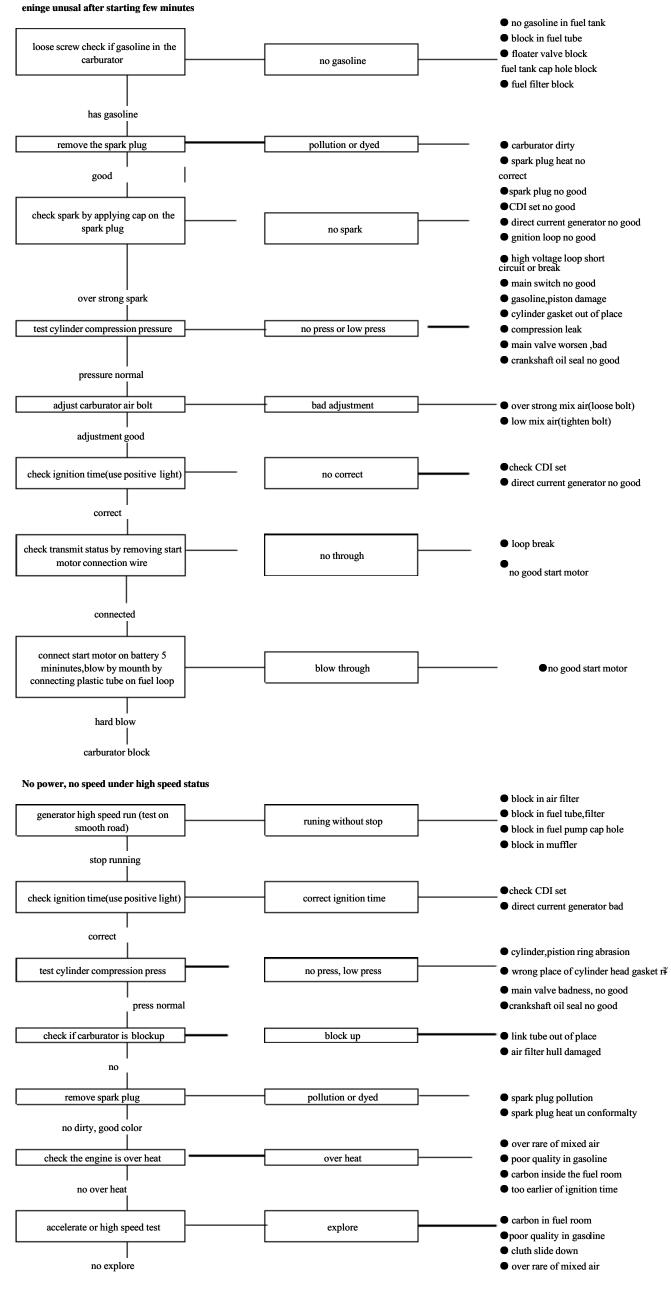


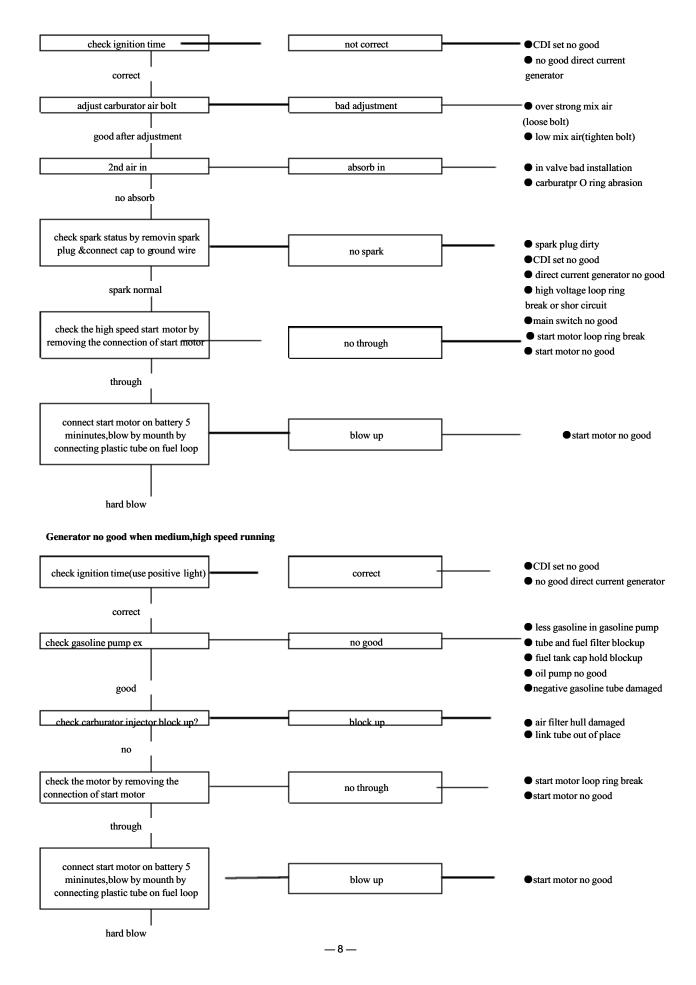
Failure Diagnose

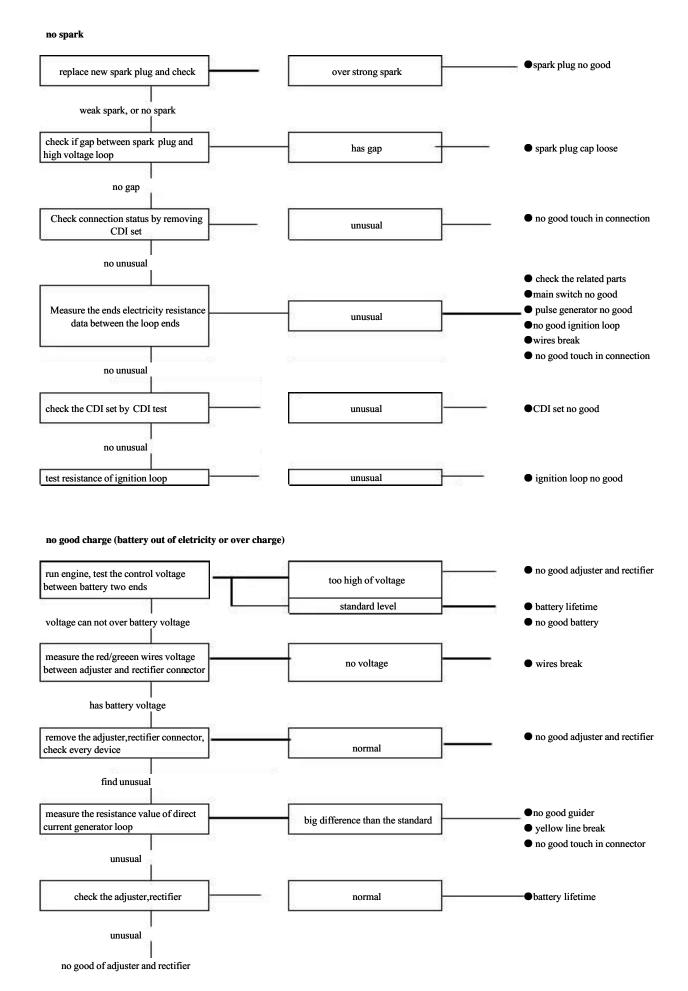
Here we clarify the close judgement on failure diagnose with the engine . Please refer to the every instruction per the un mentioned items.

unable to start or difficulty in starting









NAC12 Inspection & Adjustment

Methods of inspection & adjustment

Notice: 1. included detecting in high speed in inspections

- 2. "●"marks the executed time by requested, "○"marks the proposed time by manufactory
- 3."\(\sqrt{\sqrt}\)"marks parts needs to be replaced in periodic time, the time points to motorcycles in common running not to some special cycles in special time

then it will be adjusted following the status of travlling changed

4. " high speed" and " in high speed" mark the speed reaches or over 80KM/ h

			inspe	ction/	adjustm	ent time	
(inspection/adjustment/ item)		F F	ırt th	since new		remark	
	(mspection adjustments from)		before sta	before start first month	every half year	Per year	
Steerin							
1	handle bar	journey/ degree of tightness/ deflexion				•	6
vice		operating rightness				•	
steeringl evice	F. wheel	steering angle in left or right fork/brake piston status			•	••	
steer	Steeting fork.w	damage				•	
		Deflexion of the fork/piston bearing deflexion				•	
	Braking pedal	Pedal measure & mechanical status	•				
		Brake setup status		0	•	•	*
	Sofe tube	leakage/damage/install status replace brake soft tube		0	•		☆ every 4 years
90	Brake cup/ flume	liquid capacity	•		•	•	liquid level : R-wheel: between max. and min. limited.
evi	Wheel & Brake	enginery/abrasion/damage					
Brake Device	Caliper	replace disc brake caliper, dustproof ring rubber parts					☆ every 2 years
ш		gap between disc brake & brake attrition plate				•	
		brake attrition abrasion/harm			0	•	
	Disc brake and brake abrasion plate	disc brake abrasion/damage				•	thickness standard F-wheel 4mm R-wheel 4mm usage limit F-wheel 3mm R-wheel 3mm
į v	brake liquid	Replace brake liquid		A A			per year
set	Ignition device	spark plug status			•	•	electrode gap of spark plug: 0.6-0.7mm
electric set		replacing spark plug					per 5000KM
elec	battery	jonit status of touch pot				•	
	wiring	joint part in loose or harm https://www.motom — 10 —	 anual	 s.ne	t/	•	

— 10 —

		inspection/adjustment time							
	(inspectio	n/adiustment/ item)	.		since	new	remark	7	
	(тізресто	in adjustificity from)	before star	first month	every half year	Per year	remark (Unit: KPa) 前轮 1人乘车 225 2人乘车 250 轮胎规格 90/90-18 remaining slot deep: F-W 00.8mm Keep F-w axle & R-w nut F-w axle: 55-65N.m R-w axle nut 55-65N.m rim swing F-w landspace swing less 2. swing less 2.00mm R-w landspace swing less 2 swing less 2.00mm 10-20mm from handle to end oil capacity: between in mand of oil measure guage every two years In the middle of F/R-wheel		
			•	2 - 5	•	•	(Unit: K	Pa)	
								前轮	后轮
		air pressure of F-Wheel & R-wheel					1人乘车	- CANADA	
						-	T. Extended in I.	CONTRACTOR OF THE PARTY OF THE	10.00 40 K
						-		To construct the second	DESCRIPTION OF SEALO
W							10,000,000	90/90-18	120/90-12
h		chap/damage of wheel	•		•	•			
e e		air pressure of F-Wheel & R-wheel Lag	0.8mm R-W						
1		Check if metal/stone/others on wheels	•		•	•			
D e v	wheel	tightness of axle nut & wheel bolt				•	F-w axle: 5	5-65N.m	
i c e		rim, section of rim damage	0			•	F-w landsp swing less 2	2.00mm pace swing less	
		J. G. spicer & Lanca of Francisco		K >0	- 3		5 Wing ress		
				3			*		
	shock absorber spring			()			7		
ion	suspension pole	*				•	18		
Cushion Device		#				•			
	shock absorber	install part deflexion			•	•			
3	-1-4-1	handling distance		8.	•	•	10-20mm	from handle to	end of handle
8	clutch	function		0	•	•	36		
av ice	shifter	oil leak & oil capacity			$ \bullet $	•			nax. & min. limi
n D		deflexion of control set				•			
ssio	oiling	replacing gear-oil box					every two y	/ears	
Transmission Device	chain& chain sprocket	tightness of chain		0	•	•			_
	chanice chain sprocket	chain sprocket installation status & fixed & wear		5. 0		•			
		fix status & strange noise			• ;	•	36		
	noumenon	low speed & accelerate status		0	• ,	•	idle speed	l: 1200±100r/m	in
Е		exhaust status		8 8	•	•			
n		filter parts status			•	•			
g		oil smudge & oil capacity			•	•			
i n		oil leak			• 2	•	36		
e II	lubricate device	oil capacity	•						
		filter block status				•			
		oil pump status		0		0			
	l	https://www.motoma — 11 —	anual	s.ne	t/		1:		

				inspection/adjustment time Since new Italy Ital				
						since	e new	
		(inspectio	n/adjustment/ item)	before start	first month	every half year	Per year	remark
	Ī		fuel leak			•	•	
			link rod of carburetor status				•	
		fuel device	throttle & air valve status	0				
E		1401 40 7100	fuel filter block status				•	
n g	- 1		fuel capacity		8 2			,
i			replacing fuel soft tube		- 0			A every 4 years
n e	-		water capacity		8 ×	•		a cvery 4 years
	- 1	cooling device	water leak		15 - 3			
			radiator enginery					5
			replacing cooling fluid					every 2 years
]	Lighting device	function			•	•	
01		indicator	illume/dirty/damage	•				
		lock device	function				•	
	1	rearview mirror	reflect status	•				
		eflector & chasis VIN no. license	dirty/damage	•				
		Odometer	function				•	
			fix loosen & damage status				•	
Ve .	Exh	aust-pipe & muffler	muffler enginery		S 3		•	
ė.		Chasis	loose & damage				•	
			inject lubricating grease of chassis status			•	•	
		other	clean out carbon in firebox and exhaust-pipe				0	

Steering Device

Steering fork

Uplift the front wheel, check the fork fexible or deflexion by turning it up down and left-right sides

If deflexion up down side, check the bearing of the steering axle, replace it when problem

If deflexion left right side, check the handle bar and the fork to avoid by twisted by the cable, wires.



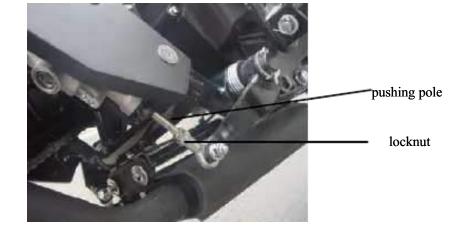
bearing of steering axle

Braking device

Braking pedal

Routing

please draw out the gas first when you find the gas mixed into the braking system after testing the braking handle, rear brake pedal.



Adjust the pedal height

Loosen the fixture nut of the rear brake pump, turn the pushing pole to adjust the height of the rear brake pedal. Double check the running of rear braking light please re adjust it if neccessory.

Liquid cup

Liquid capacity

Check the braking liquid capacity

If you find it lower than the min. limit line,

pls take away the septum of the front brake pump cover, circle the rear brake pump cup cover, affux the liquid to max. line.

Attention:

- . Do not mix the dust and water inside when filling in the liquid
- . Do not use the non-appointed liquid to avoid the chemical problem.
- . Watch the liquid NOT to erode the paint, plastic & rubber. Do not defile the part
- . When checking and supplement the liquid, please keep the level





liquid cup

Brake disc, brake plate

wear of the disc brake

Check the abrasion of the disc brake and brake plate Right replace it when over limit



limit slot of abrasion

Attention

Should replace the brake plate in set.

Check the slippage wear or damaged

Replace the brake liquid

Should replace the brake liquid once per year



limit slot of abrasion

Wheel device

wheel

air pressure of the tires

Attention

Must test it after the tire turns cold

Specified air pressure

(unit: KPa)

	front	rear
1 person	225	225
2 persons	250	250
Tire spec	90/90-1	130/90-15

Loosen of the wheel nut and bolt

Should check the loosen status of the both wheels nut

Tighten them if neccessory

Torque:

Front wheel nut: 55~65N.m Rear wheel nut: 55~65N.m



wheel nut

Cushion device

Suspension

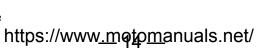
Leakage, damage

Hold the front wheel brake handle, Press hard the suspension fork repeatedly, check its function.

Check the oil leakage, loosen, damage instance



Check the oil leakage, loosen, damage instance



Gearing

Clutch

Distance of the clutch handle

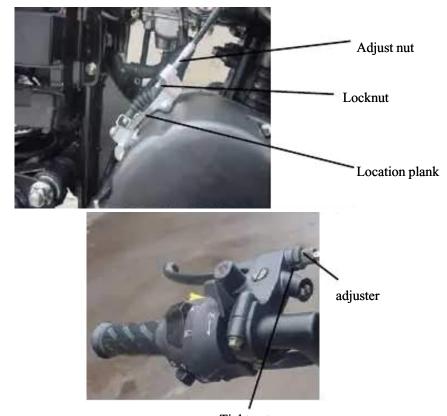
Should check the distance of the end clutch handle

Distance: 10-20mm



Main methods-loosen the locknut of the controller location plank, adjust it by turning the nut.

Adjust slightly close to the clutch handle. pls refer to the right drawing.



Tight nut

Lubrication Device

Oil leakage and measure oil capacity

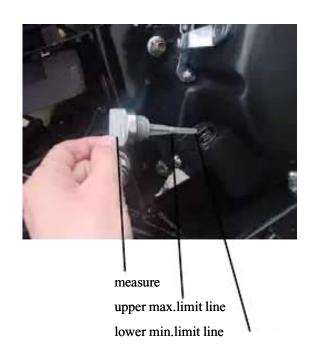
Attention

·Uprightness the motorcycle when checking the oil measure

·Run the engine 2-3 minutes, then re-check it after cutoff

Do not insert the measure deeply to check the capacity please fill the recommend oil until max. limit from the sprue if oil is low.

Recommendation oil: SAE10W/40 API SG oil

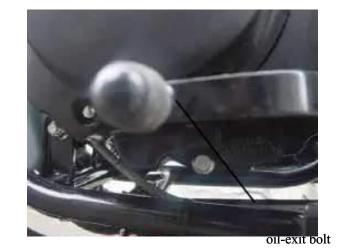


How to replace the oil

Should replace it until the engineis warm up.

release the oil by loosening the oil-exit bolt please fill the recommend oil from the sprue tighten the bolt by using the 3.0-4.0kg.m torque oild capacity 1.9L

Suggest to replace once every two years



Sprocket wheel and chain

Warning

cut-off the engine when checking

Should replace immediately when finding the chain abrasion,

damaged chain roller, loosing in lock tack.

should cutoff the engine, neutral it, and hold the motorcycle

Please check the tolerance of the distance between two chain sprockets.

Tolerance:L 15-25mm

Loosen the rear wheel axle nut, move the adjusting nut.

Please check the symmetry left and right sides after adjusted.

Tighten the rear wheel axle nut, torque: 55-65 N.m



Chain tolerance: 15-25mm

Engine

Low speed and accelerated status

Attention

.Adjust the idle speed by warming up the engine

.Please adjust the carburator after disassembled and repaired

concurrenced with the carburator itself.

.Start the engine

.Make the engine in "neutral"shift, turn the throttle screw

to the stated data.

Idle speed: 1200±100r/min

If non-steady idle will cause the rotational creeping problem, so it needs to adjusted as well.

1200±100r/min

Air filter core status

Please disassemble the left side cover

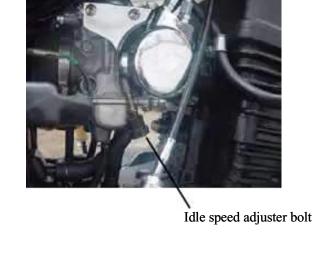
loosen the bolt, take the core out.

Clean the core if found very dirty; replace it

when damaged.

put the core back to the box of air filter, tighten

the bolt





tighten bolt

Core

Fuel device

Status of the control fuel throttle cable

Check its sensitive of the fuel throttle cable Turn back the grip around 2-6mm space

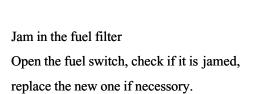
Adjust the distance on the carburator take off the cover of the carburator, adjust the nut to control the distance

Adjus the distance on the control cable Loosend the fixture nut, adjust it by the adjuster

Check the damage or bent status of the handle tightwire Check its smoothly while opening or close

Adjust it on carburator

Loosen the clip, adjust the location of the tightwire



Tighten the nut, torque $20\sim25N.m$

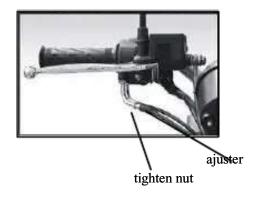


2-6mm



Adjuster nut

Tighten nut







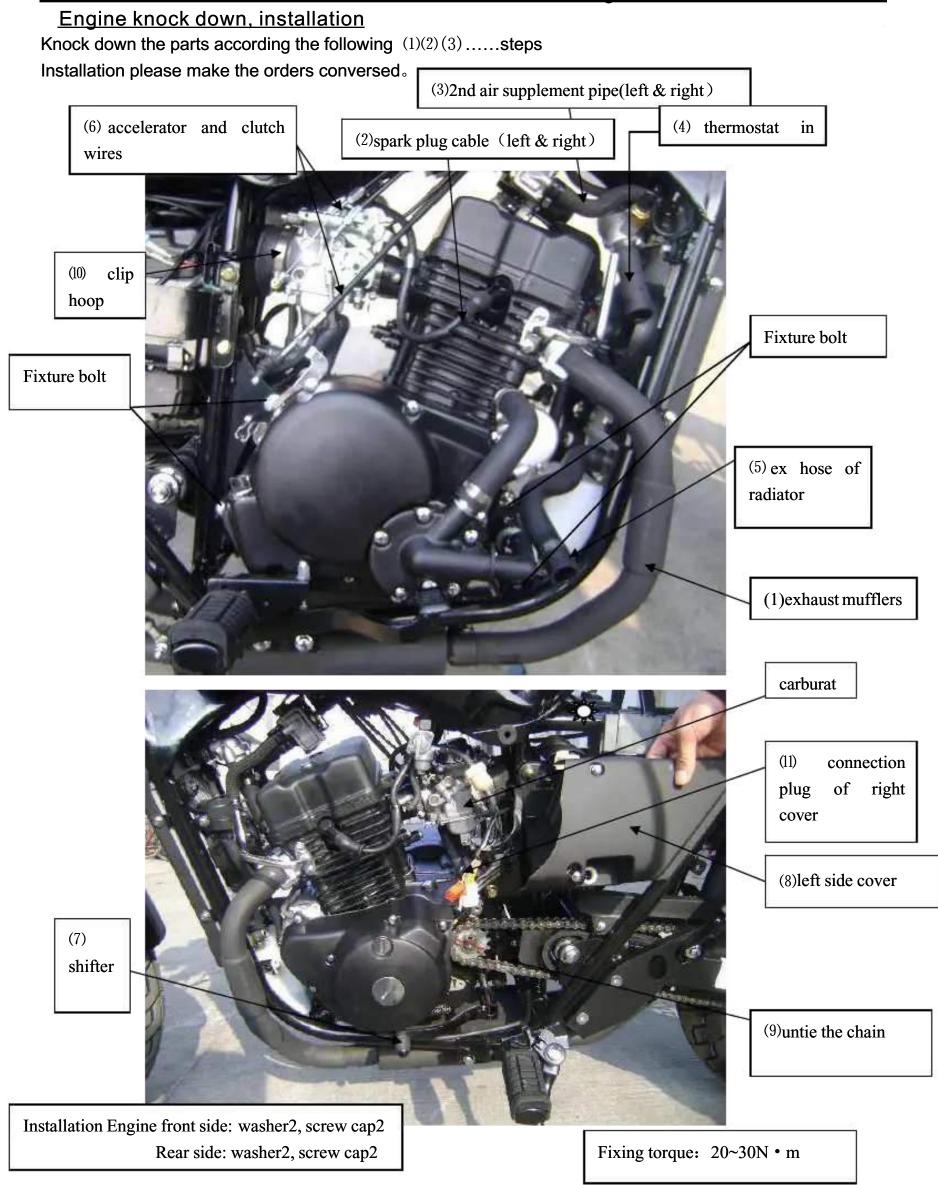
tightwire clip

fixture bolt



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filter screen



Cylinder head, cylinder, piston, valve system

Maintain manual

checklist

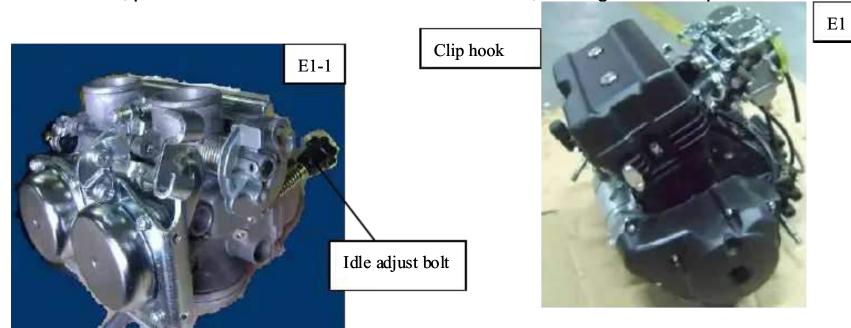
Chook itom	re	quest		List
Check item	DD244	DD247	DD244	DD247
Cylinder inner diameter	44~44.01mm		44.10mm	
Piston outer diameter				
Piston pin outer diameter	12.95-13.00			
Piston pin hole outer				
diameter				
Gap of piston ring side				
Gap of piston ring				
Thickness of piston ring 1				
Thickness of piston ring 2				
Free distance of inner				
valve spring				
Free distance of outer valve spring				
Outer diameter of valve in				
Outer diameter of valve ex				

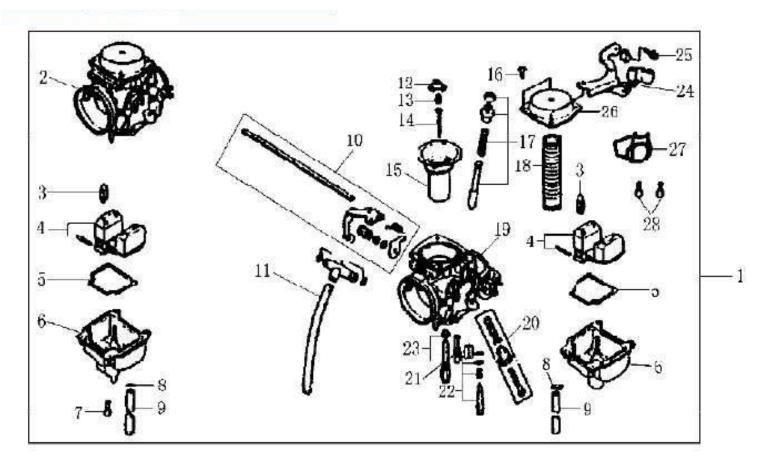
Torque

torque on both bolt heads on cylinder head : 18~22N·m

1. carburator

Loosen the clip bolt on carburetor, the carburetor can be taken off. When installation on carburetor, please make the intake towards the manifold, then tighten the clip bolt.



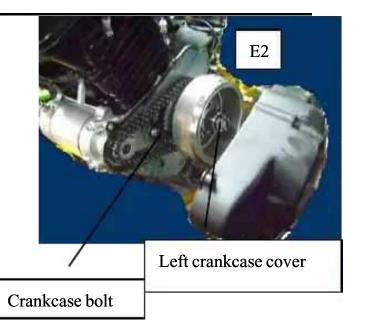


1.Carburetor, assy. 2. Left carburetor comp. 3. Float pin. 4. Float set. 5. Gasket, float chamber. 6. Chamber set, float. 7. Screw M4×14. 8. Clip, tube. 9. Over petrol tube. 10. Starter control rob comp. 11. Connecting petrol pipe comp. 12. Limited plate. 13. Spring. 14. Pin, petrol. 15. Vacuum piston valve. 16. Screw M4×8. 17. Starter thicken valve set. 18. Reset spring. 19. Right carburetor comp. 20. Screw set. 21. Jet, slow. 22. Jet, main. 23.screw set. 24. Frament. 25. Screw M4×10. 26. Vacuum piston valve cover. 27. Decorative cover, carburetor. 28. Bolt M4×6

Engine knock down, installation

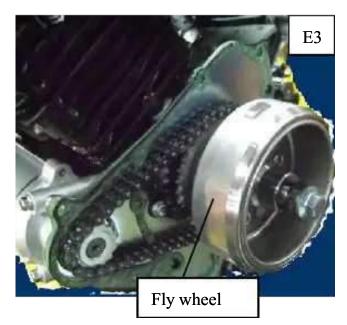
2. Magneto knock down and installation

remove the left crankcase cover, take off the crank bolt, remove the flywheel(do not knock the flywheel while removing, when install the flywheel, follow the slot and the crankcase end). Please refer to drawing E2.

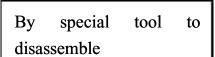


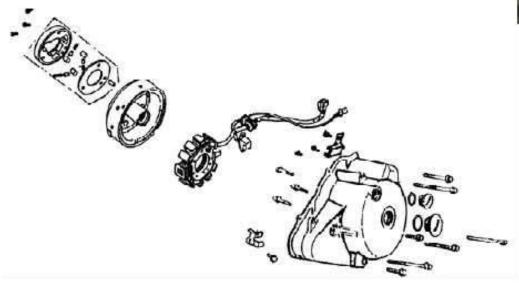
Note:

- Check if any dust inside
- do not knock by sinker
- Install torque for crankcase bolt is 60~65N·m









Engine knock down, installation

3 Rocker base

Take off the two impact bolt on cylinder head cover, remove The cylinder head cover.

Cylinder head cover impact bolt

E7

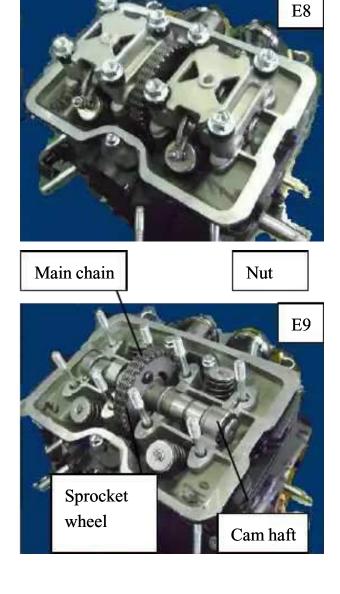
tensioner

Remove the tensioner bolt, take down the tension

Remove the 8 nuts, take off the rocker base Torque of the 7 nut is $18{\sim}22N{\cdot}m$ Gap between valve : (cold) in valve $0.05{\sim}0.07mm$; exhaust valve $0.06{\sim}0.08mm$

4. Camshaft installation and disassemble

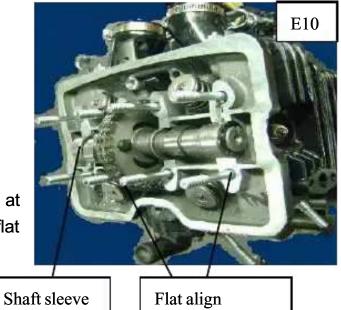
remove the main chain and sprocket wheel, take out the camshaft

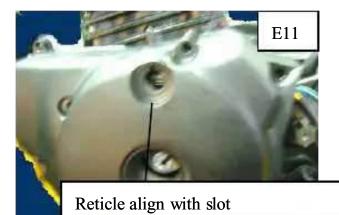


Note:

When install the sprocket wheel and camshaft; piston is located at the end of compression stroke, please refer to drawing E10 at right side, the reticle at positive time of sprocket wheel is flat aligned with the cam platform of cylinder head.

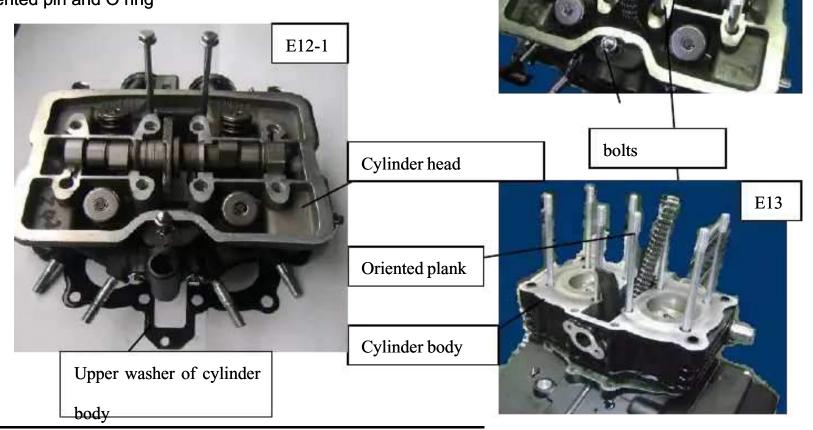
please refer to drawing E11, the reticle of flywheel should be alignment with the threaded slot of the left cylinder cover. the pin of the shaft sleeve of camshaft should be set into the pin slot,





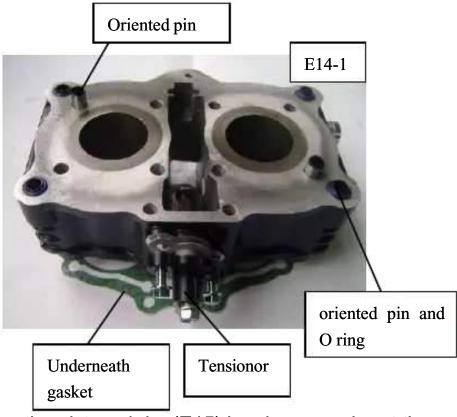
E12

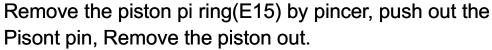
5. Cylinder head remove and installation Remove the cylinder head by taking out the camshaft, Disassemble the bolt on cylinder body and cylinder head When installation, do not forget to put the washer, Oriented pin and O ring



6 cylinder body

Cylinder head can is removed by removed the cylinder head, take the oriented plank out.





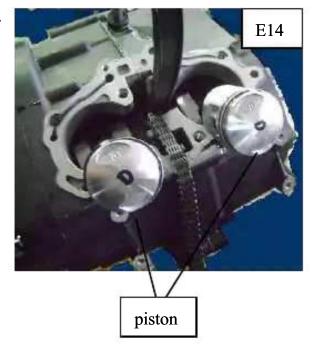
When installation, please block the intake by clean cloth To avoid the ring falling down into the cylinder body. The "IN" mark means intake

7、 Clutch

First please exclude the oil in the crankcase, remove the right crankcase cover

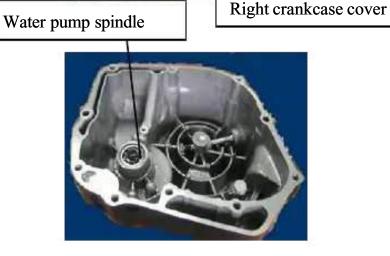
When installation the right crankcase cover, pay attention To the same direction of the water pump spindle and the Oil pump spindle and do not fall down the ex-oil pipe (E16, E17, E18.)



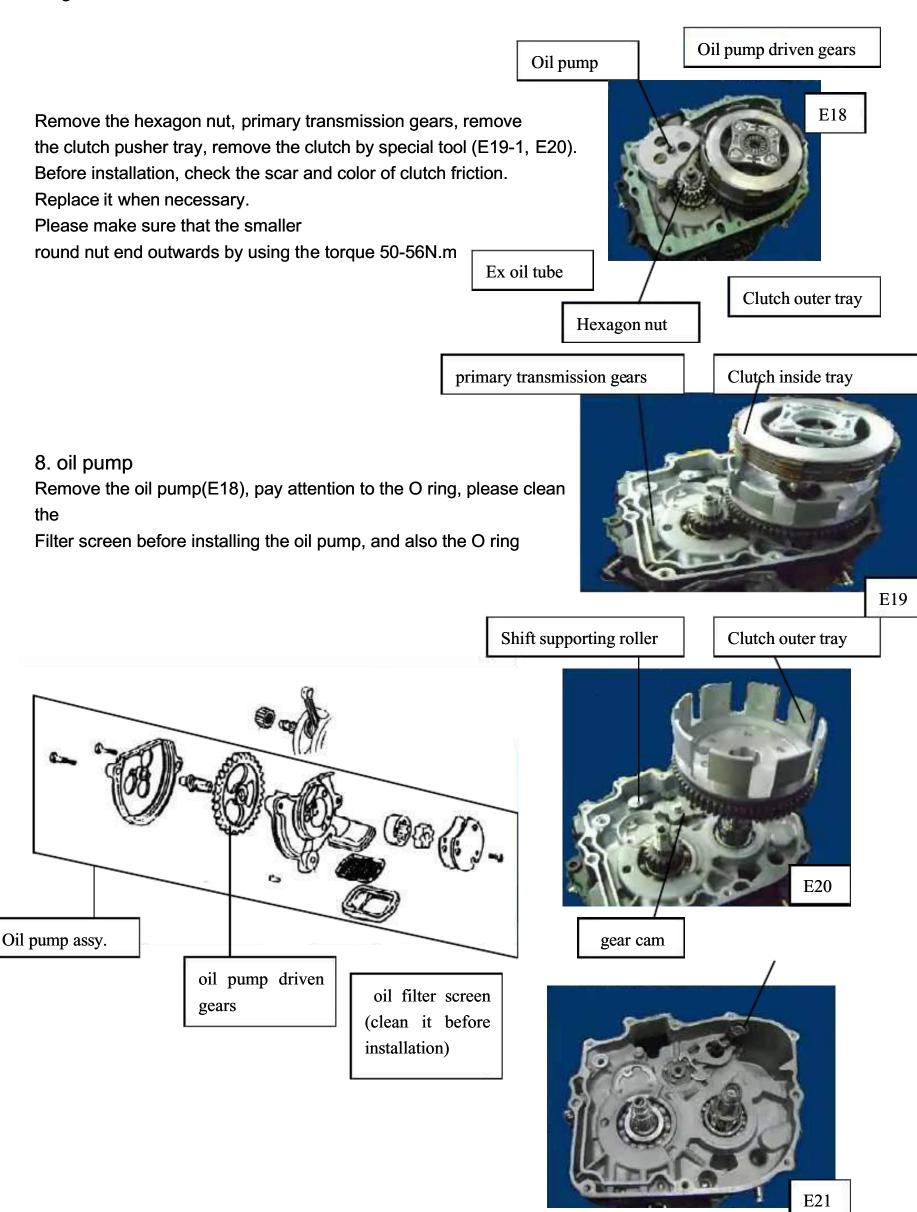








Engine installation and disassemble



9, shift gears installation and dissamble

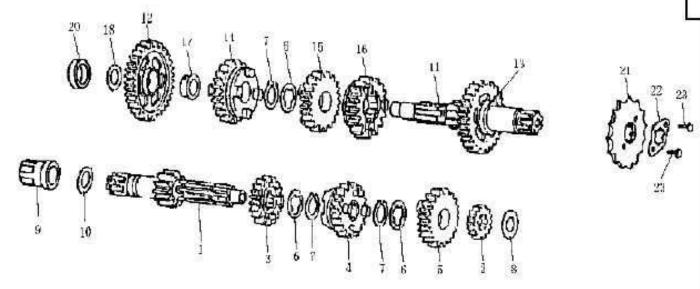
Remove the gear supporting roller, gear cam in turn, take out Gear shank, loose the mounting bolt, remove the right crankcase

(drawing E21, E22)

Note: turning spring of gear supporting roller should be in right place; the gear cam pin should be aimed at when installing the gear cam.



Right crankcase



1. Mainshaft comp 2. Gear, mainshaft second 3. Gear, mainshaft third 4. Gear, mainshaft fourth 5. Gear, mainshaft fifth 6. Washer ,spline 7. Set ring 8. Washer 9. Shaft bush spline 10. Washer thrust 11. Countershaft comp 12. Gear, countershaft first 13. Gear, countershaft second 14. Gear, countershaft third 15. Gear, countershaft fourth 16. Gear, countershaft fifth 17. Bush 18. Washer 19. Collar(A) 20. Collar(B)

21. Sprocket, counter shaft 22. Plate, fixing

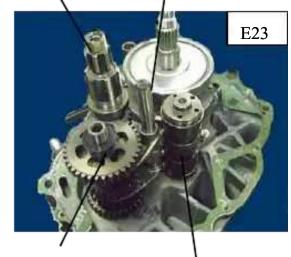
Bolt M6×10/ZnD

Mainshaft comp

23.

Gear fork, gear fork shaft

10` crankshaft installation and remove remove mainshaft set, side shaft set, gear fork, gear fork shaft and cam shift kettle, loose the crankshaft mounting bolt, then the crankshaft could be taken off. Please clean the mainshaft and sideshaft before installation. Pay attention not forget to put the washer

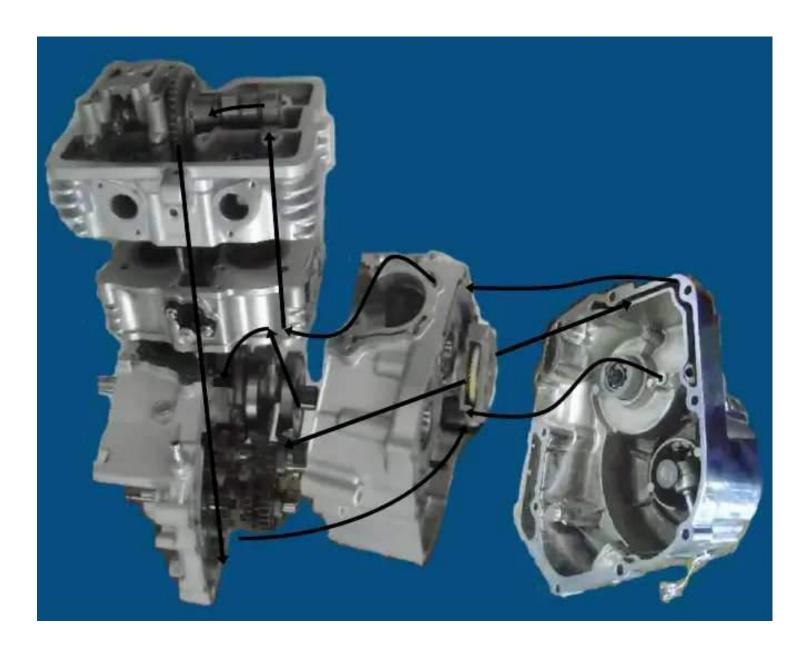


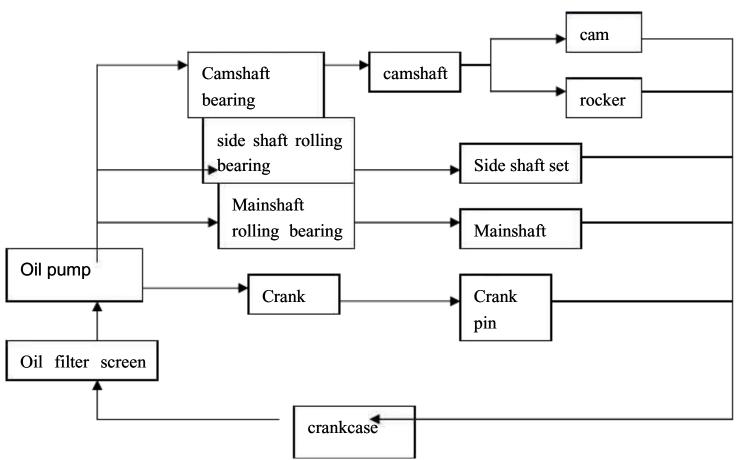
Crank shaft E24

Side shaft set

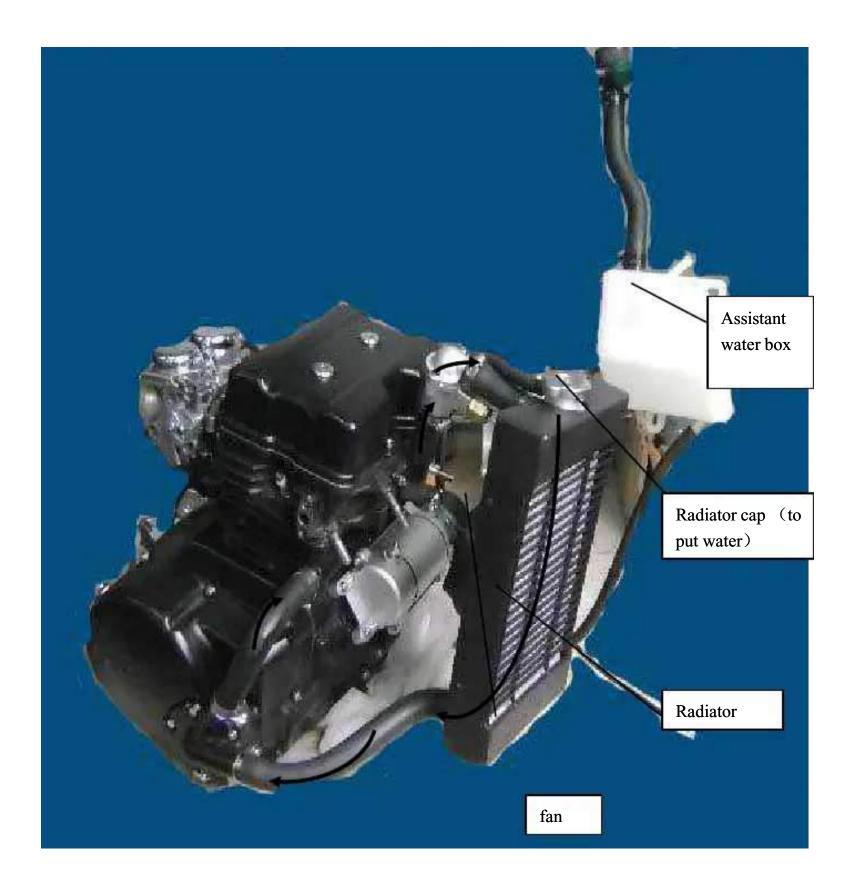
cam shift kettle

11. Engine lubrication system chart

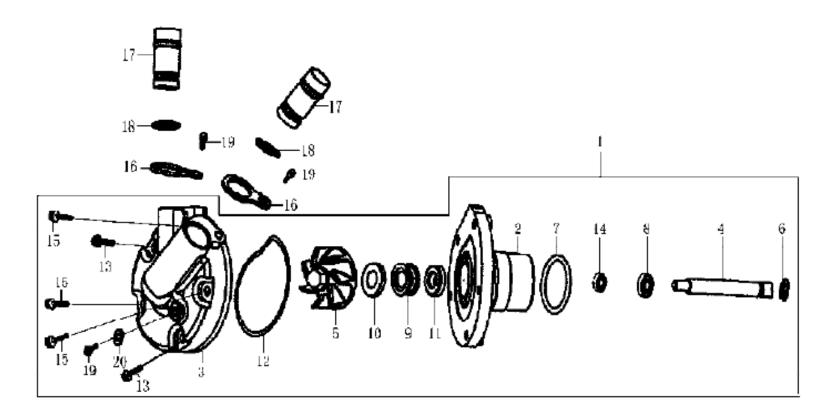




12, engine cooling system chart



water pump breakdown chart:



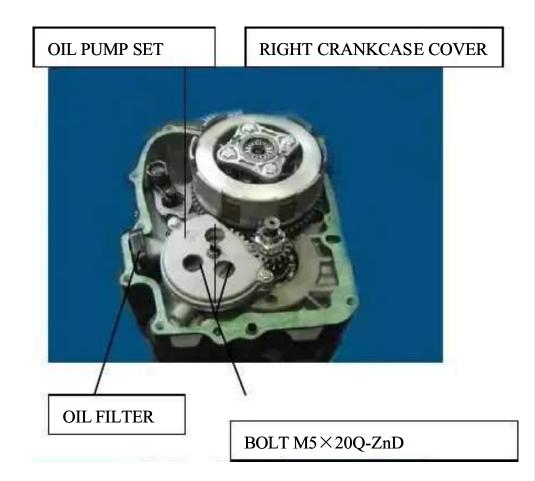
1 Water pump comp 2. Water pump hull 3. Water pump cover 4. Water pump shaft 5. Fan 6. Retaining ring 8 7. O-ringφ36x2 8. Bearing 6200 9. Water seal A 10. Water seal B 11. Oil seal 21x10x5 12. O-ring of pump cover 13. Bolt M6x30 14. Bearing 6000 15. Bolt M6x40 16. Hose connector setting plate 17. Hose connector 18. O-ring φ17x1.8 19. Bolt M6x12 20. Washer 6

Oil filter how to change

Remove the right crankcase cover, loose The 3 oil pump bolt, remove the whole oil pump,

Open the oil pump rubber, clean the oil filter





Electric device

Free maintain of battery , no need to check its liquid capablity, and no need making up distilled wate, Yusa battery need to be inspected and make up liquid

Take off the battery from the motorcycle and can be recharged even the liquid lid is closed.

No need urgent charge for battery unless emergency happened

please follow the requested time and electric current in the instruction when charging battery

No need to adjust the ignition time because of the CDI fire setting. In case the ignition is unnormal, please inspect CDI parts and battery, please replace the parts immediately if problem

Starter motorcan be disassembled and installed during the engine is loading

Faults Diagnose

voltage low

lacks battery voltage

plugs connect is not sensitive

charging system poor work

voltage regulation and rectifier poor work

un steady electric current

poor connection of battery

poor connection of charging system

poor connection of ignition system or short circuit

poor connection of charging system

fuse open circuit

poor connection of insert plug, open circuit or short circuit

voltage regulation & rectifier work

generator poor work

start motor poor power

- $\cdot \ less \ charged \ on \ battery$
- · poor connection of lead wire
- ·others in motor or gear wheel

Engine does not work while start motor is okay

- ·start pinion poor work
- · start motor works in reverse

pointer of fuel gauge unsteady

- · plug loosing
- · combination parts in bad condition
- $\cdot meter\ failure$

fuel gauge pointer failure

- · connect plug failure
- · wiring harness breaks off
- · bobber acts failure
- · meterfailure
- · meter poor work

battery

Battery disassemable and fixing

loose fixture bolt on left side cover, remove the left side cover

no spark by spark plug

- · spark plug damage
- · poor connection of circuit wire, open circuit or short circuit
- ·ignition switch poor work
- ·ignition wire poor work

CDI damager

generator poor work

start motor does not work

fuse turn off

- · battery less charge
- ·ignition switch poor work
- · F/R brake switch poor work

·start relay poor work

- · poor conntection of lead or short circuirt
- start motor poor works
- ·start switch poor work

engine runs unnormaly

- · ignition system stair loop
- ---- ignition loop poor work
- poor connection of circuit
- poor connection of main switch

·ignition system second loop

- ---ignition loop poor work
- ----spark plug damage
- ----ignition loop damage
- —— high voltage cap creepages

·Igination time

- ---- generator poor work
- guide system poor fixing
- ----- CDI poor work

light dim

- · battery discharge
- ·over resistance of layout and switch

headlight can not be changed to high beam or dipped headlight

·switch poor



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fixture bolt

remove parts in turn

·strap

·fixture bolt

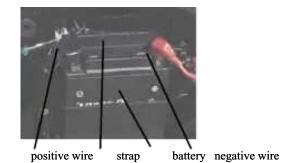
·positive/negative wire

·battery

Note

Please disconnect the negative wire before the positive wire

When installation, do it coversely



charge

connection method: positive side of charger connects the positive of battery negative side connects the negative of battery.

charging current: less 0.9A



Notice

Forbiden fire nearby battery

on and off of charging must be controlled by onoff of charger, to avoid ignition fire damaged

when disconnect and connects

Check on charger system

take off the terminal of lattery, measure the voltage between of positive and negative terminal in battery completeness charge: $13.0 \, \mathrm{ty}_1 \, \mathrm{measure}$ poor charge: less 12.3V

Regulating rectifier

system test

cut regulating rectifier

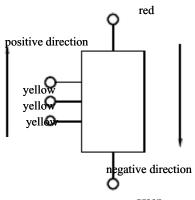
Check the plug parts loosed or corrosion

Test items as following

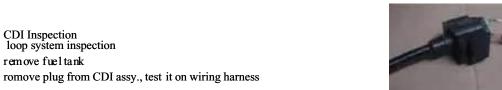
positive direction:	con	nect

	pointer (positive)	pointer(negative)
1	yellow line	green line
2	red line	yellow line
nagative direction: not	connect	

	pointer(negative)	pointer(negative)
1	green line	yellow line
2	yellow line	red line







item	test point	standard scale
ignition switch	black/white- green	n ignitation switch, no conne
ignition loop	tı	ırn on light onoff, not guide
original loop	double ends	0.36~0.4 O
inferior loop	green- lead of high voltage	3~3.4 KO



check on fuel supplying system

remove fuel tank

let bobber move up and down fully, test the resistance in each ends

lead end	bobber location (upper)	bobber location (down)
green-yellow/white	6~10 O	94~108 O





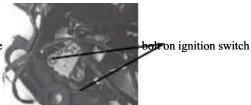
Check on ignition switch

remove the plat handle bar and the brackets for odometer

Remove plug of ignition switch , accroding to the drawing of electric layout to te if it is got through

Replacement

Replace it when the ignition switch does not work remove the brackets andremove the kickstand and inset parts remove the fixture bolt- remove fastness bolt and onoff of light fire installation way is the inopposition method of disassembly as fix



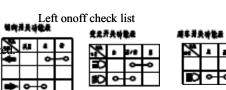


Check on handle bar

(refer to the chapter 10)

remove the cable plug of the handdebar onoff, check if each ends are connect if any problem, please check them according to the right next drawing. Fuction list of the left onoff

Fuction list of the right onoff





please check them according to the right next drawing.

right onoff check list

	照明开关功能表					
χ	2/8	1	+	8/2		
×	δ	٩	þ	٥		
ж		٩	٥	٥		





Neutrul onoff

Remove the plug of the engine ex wire, test the connect between the light green/

In neutral: connect others: not connect



Engine ex wire netrul wire(light green/red)

clutch onoff

remove the connection loop of clutch onoff
Try the clutch bar, check the connection between in in two end parts
hold hard of the clutch bar: connect
release clutch bar: no connect



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clutch bar clutch onoff ends

Rear brake light onoff

remove the right side cover, remove the plug of the braking onoff Try the rear brake peg, check the connection between two leads step on the rear brake peg: connect release the rear brake peg: not connect



plug of rear brake onoff leads

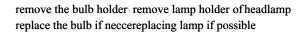
Front brake light onoff

remove the connection loop of brake onoff try the brake bar, check the connection betweeen two leads hold hard of the brake bar: connection release the brake bar: no connection



Headlight

remove the fixture bolt of the front light take the front light from the lamp cover



Installation procedures is conversed than the removing procedures. Note

Hold the bolt to the bolt slot in the front light collect the wires after installation

Odometer light

remove the bearing nut loosen the fork nut and the fixture bolt of handlebar loosen the fixture bolt on flat handlebar take out the handle bar remove the flat hanldebar and odometer

take out bulb holder, and replace new bulb

installation procedure is conversed as the removing procedures



Brake bar brake onoff leads



fixture bolt



bulb holder



pearing nut fixture bolt of handle bar fork nut



bulb holder

Cooling system

• failure diagnose

water temperatur rises too high

- (1) check if calculater or heat sensor problem
- (2) check if radiator cover problem
- (3) check if thermostat problem
- (4) check if not enough coolant
- (5) check if the water pipe or water pipe cover is blocked up.
- (6) check if the radiator slice is bent or out of shape
- (7) check if the water tank is blocked up.
- (8) check if the water pump is problem

water temperature no up or difficulty in rising

- (1) check if temperature meter and related parts is not good
- (2) check if thermostat is not good

leakage

- (1) mechanism seal problem
- (2) the aging of O ring, seal not good
- (3) the aging of soft dome water pipe damaged.

Maintain Notice

Notes

The maintain on cooling system can be adjust on the motor. However, the water pumpt parts need to be removed.

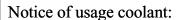
The maintain must be under the cold engine. It is danagerous to open the radiator cover when it is hot then you must wait until the temperature goes down.

if the coolant touches the paint, it would corrot the painting. So you must wash it by water immeidately.

After inspection and maintainance, please check the connection and seals to avoid leakage.

■ Maintain standard

Item	standard value
fan switch general temperature	88℃
sensor general temperature	125℃
cooling water content	full around 1.6L(water bottle around 0.4L)



You must use the 3500 anti-rust &freeze liquid if suppling the coolant. Do not mix with the other coolant harmful of coolant, do not drink it.

do not open the radiator cover when the engine is in hot

Radiator

remove of the radiator

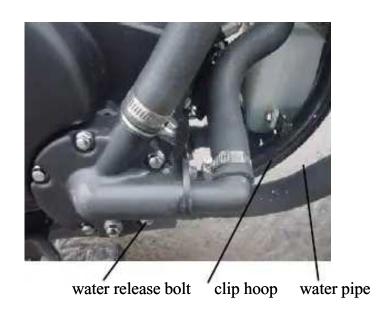
Remove the water release bolt, please eject to the clean content.

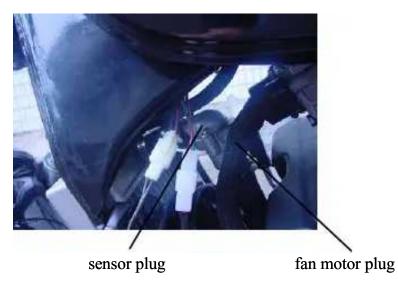
Loosen the clip hoop after the coolant is ejected remove the water pipe

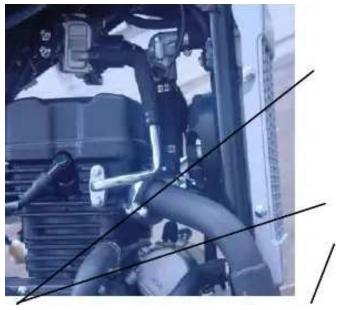
remove the fan motor and inductor connection

Remove the 4 fixture bolt

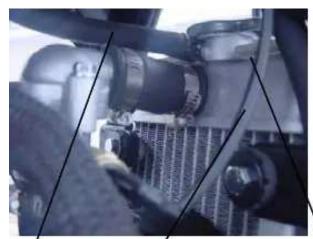
Dismove the radiator cover from the chasis







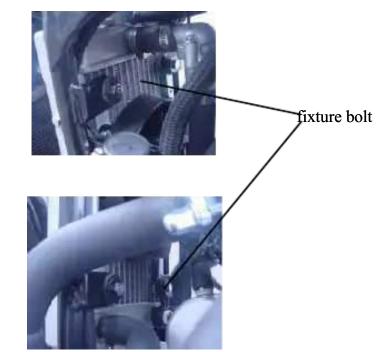
fixture bolt radiator cover



Loosen the clip hook of thermostat water pipe loosen the clip hook of the water bottle hosing, and depart from the radiator

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Remove the upper fixture bolt and lower fixture bolt remove the radiator

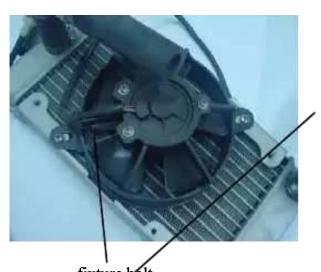


do not damage the cooling fin

radiator breakdown

remove the 2 bolts, take out the fan completely.

please screw out the sensor, loosen the fan switch sensor nut



fan switch sensor

check on fan switch

please put the fan switch sensor to a testing case, heat it to 88°C, then measure the heat sensor resistance at that time the fan switch heat sensor is connected.



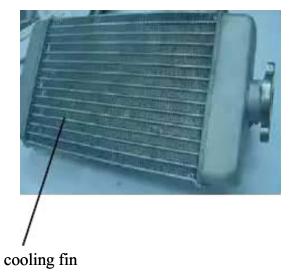
fan switch heat sensor

• Check on the radiator and soft pipes, etc.

check the core of radiator blocked up or not, the cooling fin is bent or not please adjust it by a screwdriver

if the block is 20% than the total cooling area, please repair the radiator or replace it immediately.

check if the soft pipe and its clip is aged and damaged



Installation of radiator
please install it conversed procedures as knock down
inject the coolant(refer to chapter 3)
check any leakage on the soft pipe, every connectors,
lower of water pump

thermostat

remove the thermostat eject the coolant(refer to the last chapter) fold the senser wire



Loosen the clip hoop of the water pipe of thermostat remove the thermostat



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clip hoop

installation of thermostat

please install it conversed procedures as knock down inject the coolant(refer to chapter 3)

heat sensor knock down

take off the heat sensor from the thermostat hull



heat sensor thermostat hull

check on the heat sensor

please put the heat sensor to a testing case, heat it to 125° C, then measure the heat sensor resistance at that time the heat sensor is connected.

Installation of heat sensor

wipe the screw antiloose and put it on the thermostat hull. connect the down-lead



heat sensor connector

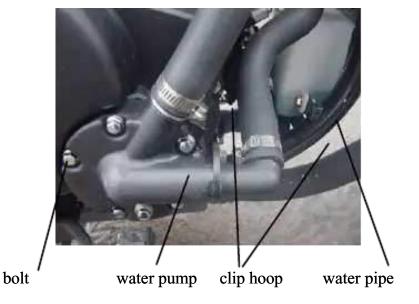
water pump

check on mechanism seal

check if any leakage on the testing hole underneath the water pump. If yes, please replace the mechanism seal

Remove the water pump

eject the coolant



loosen the clip hoop, remove the soft water pipe from the water pump loosen the 5 bolts, remove the water pump

Thermostat



1. open the thermostat cover



2 take out the thermostat(see arrow)



3 Pressure seal (remove this rubber seal ring, put it outside of the $\Phi 30^* \Phi 20^* 1$ flat washer



4. Please put the seal washer in the hull of thermostat, mount

the thermostat cover.

Front wheel, front suspension device, steering device

Maintain information

Notes:

- 1_{\times} Do not press over-load on the wheels and put anything on the wheel. Pay attention not to damage the wheel during maintaining.
- 2. Pay attention not to damage the tire and rims due to no inner tube inside
- 3. Please use the special "Off-tire pole" and rim protector when removing the tire out rim and avoid of damaged wheel.
- 4. Please remove the disc when replacing the tire. Otherwise, please do not load any on the disc plate but hold the rim with the wood board.

Maintain standard

Item		standard	limit
Bent radius of front wheel			0.2mm
jumpiness of front wheel	vertical		2.0mm
	horizontal	9	2.0mm
Bent radious of fork leg		0	0.2mm
oil capacity of fork	standard	257ml	

Fixture torque

Handlebar mounting bolt	24-30N.m	brake pump mouting bolt	24-30N.m
fork bushing bolt	15-25N.m	steering adjustment nut	23-27N.m
brake disc nut	14-16N.m	braking seat bolt	10-14N.m
fork leg bolt	15-30N.m	steering pole nut	90-120N.m
front axle nut	55-65N.m	clutch seat	7-11N.m

failture diagnose

low tire pressure

hard in controlling the handlebar loose on front wheel axle

 over tighten on the steering adjustment nut
 tire no good

 steering axle damaged
 related mouting parts no well tigtened

steering axle damagedrelated mouting parts no well tigtertwist when steering by the cables and operating wires.related to the front wheel axle

Impossible to operate the handlebartoo soft of the front suspensionfork bentover work on the springfront axle bent, tire damageda little leftover of oil capaicty

rear fork bent air pressure of fork no good
noise in the front suspention no usage of stickness oil
touch on the fork leg and bottom too hard of front suspension

less oil capacity

oil no good quality inside the fork leg
loose on fixture parts for suspensions

no good adjustment of air pressure

front wheel shakingfork legs bentrim out of shapeblock-up of the oil passagewayno usage of stickness proper oil

Handle bar

remove

dismove the following parts from right handle bar

- 1. brake pump
- 2. handle switch
- 3. fuel accelerater handle grip



balance of wheels no good



handle switch

remove the following parts

- 1. clutch bar holder
- 2. handle switch





loosen the mounting bolt , remove the handle bar $% \left\{ \mathbf{r}^{\prime}\right\} =\mathbf{r}^{\prime}$

Installation

install the handle bar on the fork (make sure that the loop is in the slot of both fork) mounting bolt fixed is aligned with faceplate



mounting bolts



Note

check if the faceplate is well connected with handlebar, make sure the tightness of the loop from up to down side. if any problem, loosen the steering bolt, move the fork down wards to make it well installed.



bolt of faceplate

tighten the faceplate bolt torque: 9-13N.m

tighten the handlebar mounting bolt

torque: 24-30N.m

steering bolt fuel accelerated grip



handlebar mounting bolt

use the lubrication grease on the slipping side, then install fuel accelerated grip

Please insert the fuel accelerated cable into the grip. alignment the right handle switch convex into

the handle bar, tighten the switch by two small bolts

Note

first tighten the front small bolt, then the back one



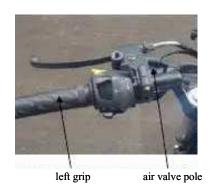
fuel accelerated cable

mark the "UP" of the holder, install the brake pump on the hanldebar alignment the hanldebar mark and the face of brake pump and holder first tighten the upper bolt, then the under bolt torque: 10-14N.m connect the front brake light switch by wire adjust the gap of the installed fuel accelerated grip



UP mark

air valve switch on the handlebar clean the dirt or oil grease on the left grip and connect side of handlebar



install the air valve operatin cable on the air valve pole align the bulgy of left bar switch with the hold on handlebar tighten the handle switch by the 2 small bolts

Note

First tighten the frontier bolt, then the back one

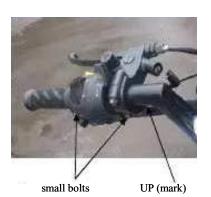
install the clutch bar, tighten it by bolt torque: 7-11N.m

Note

align the mark with handlebar and the face of bar holder

"UP" mark face up

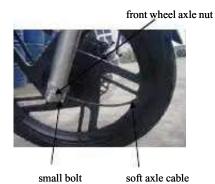
First tighten the upper bolt, then the under one



Front wheel

remove

remove the soft axle bolt , remove the odometer soft axle



remove the mounting bolt of brake pump

Hold the front wheel up by holding the chasis
loosen the front wheel axle nut
pull the axle out, remove the front wheel

note

Do not damage the disc brake and brake plate



wheel axle nut

Turn the inner ring of the wheel bearing by finger, if any loosing gap or noise, replace it

Make sure that the outer loop of bearing is pressed into the rim , replace it when any problem $\,$

Note

Replace the bearing left and right together



wheel bearing

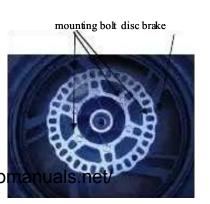
Next

remove the 6 bolt, remove the disc brake

Warning

pay attention to the oil grease. It will reduce the braking function make sure to remove the grease completely

https://www.moto



Installation

attention

do not touch the brake disc

Install the wheel axle from left side align the odometer gears with the right side of the left fork ends put the bushing on the right side, put axle on the rim tighten the wheel axle, tighten the mounting bolt from left side torque: 15-20N.m



Install the wheel axle nut, tighten it. torque: 55-65N.m

Tighten the right mounting bolt of wheel axle

torque: 15-20N.m

connect the soft axle of odometer to the speed gears, tighten it by the small screw. install the brake pump



speed gears

front axle nut

Note

Do not damage the disc brake plate

Try the brake bar several time in order to check each gap between the brake pum and disc brake

The main reason is because the too small gap between the brake pump and disc brake

Front suspension

Remove

remove the front wheel

loose the brake pump mounting bolt, remove the brake pump

Protect the brake pump by used cotton, put in on

the working table.

Do not bend the brake soft pipe

after taking out the brake pump, do not operate

on the front brake bar

remove the mounting fender bolt, remove the front fender, remove the brake soft pupe from the front suspension

Do not bend or twist the brake soft pipe



brake pump mounting bolt

front fen

Loose the face plate bolt



face plate bolt

Loose the steering bolt down wards move the fork leg, remove the fork

Note

lay down, caution, do not damage the surface of fork



Installation

Reversed procedure as the remove.

Tighten the face plate bolt Torque 9-13N.m tighten the steering bolt torque: 45-55N.m

steering post

remove

remove the front suspention (see above steps)
remove the nut and washer from the steering post
loose the bolt of face plate, take the face plate off



loose the steering axle bearing nut take out the steering post from the chasis stem

Note

Make sure to protect the nut screw threads of steering post do not damage the steering post

remove the dust proof ring
please put the new dust proof ring into the steering post
press the inner ring



Steering axle bearing nut

Installation

lay on the lubrication grease completely in the chasis stem replace the new steel ball install the steering post into the head stem install the upper bearing

Tighten the steering adjust nut

torque: 23-27N.m

Then tighten the steering adjust nut per specific torque

Note

Repeat turning to left and right 5-6 times after installation	
if no sensitive, please re adjust the steering axle bearing nut.	

Rear wheel. Rear fork. Rear shock absorber

failure diagnose

rear wheel swing

- (1) rim out of shape
- (2) loose of rear wheel bearing
- (3) poor tire
- (4) poor mounted parts related to the bearing
- (5) less pressure in the tire

too soft of the rear shock absorber

less oil fluid in the cushion

rear shock absorber too hard over oil fluid in the cushion

- noise of rear shock absorber (1) probblem on the rear shock absorber
- (2) loose in the mounting parts

Maintain notices

Notes

pay attention not to damage the alloy rim

Do not damage the tire, rim because of the no tube tire.

to avoid damage the wheel, please use the special tommy bar and wheel protecter to remove the tire.

Maintain standard

1100		standard	limit (mm)
wheel axle	bend radious		0.2
	axle direction		2. 0
jump of rear wheel	radial		2. 0

Regualted torque

18-25N.m rear shock absorber (upside) 30-40N.m (downside) rear wheel axle nut 80-100N.m 60-70N.m drive sprocket nut

remove rear wheel

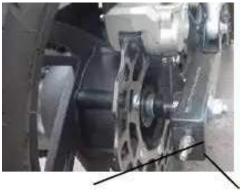
hold the motor by jack, take the rear wheel out of ground loose the rear braking pump mounting bolt, remove the rear brake pump. remove the rear wheel axle nut.



rear wheel axle nut

rear brake pump mounting bolt

loose the adjuster nut push hard on the adjuster forwards push hard on the wheel forward to remove the chain out of the chain sprocket



adjuster nut

adjuster

Hold the rear wheel up

Remove the rear wheel axle, take the bushing and rear wheel out

check on the bent of wheel bearing

wheel bearing bent data

limit: 0.2mm above, please replace asap.

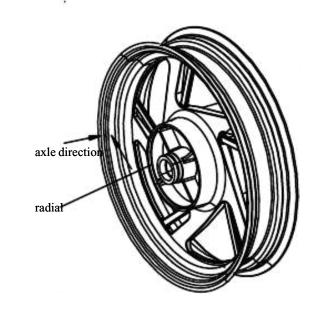
check damage of the rear wheel bearing

turning the rear wheel, if found the bearing boose or noise, pleae replace the new one asap.

check the jump of rear wheel

limit axle direction jump: 2.0 above, please replace jump radial side: 2.0 above please replace

the whole style wheel can not be repaired

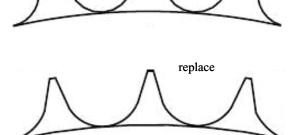


good

• check the driven sprocket

replace new if the driven sprocket abrasion, out of shaped

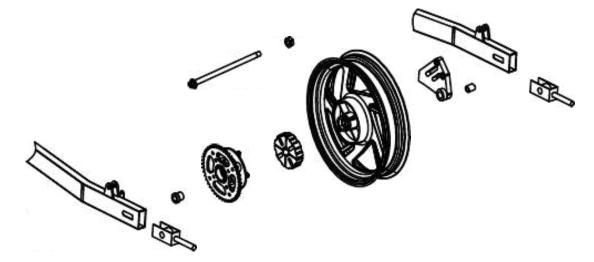
meanwhile check the driven sprocket&main sprocket



• check the cushion pad

replace the new one if the cushion pad is aged or damaged

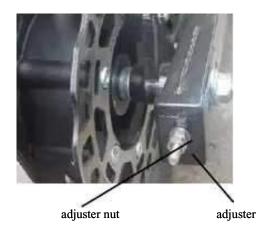
rear wheel installation



Please install the rear wheel on the rear wheel per above steps

cushion

left side sleeve length is 26, right side is 12, do not mix them put lubrition oil on the oil seals and cushion before installation Adjust the adjuster nut to make sure the proper chain length (refer to the check and adjustment chapter)



Install the wheel axle nut Mount the rear disc brake on the mounting plate by bolt

rear wheel axle nut torque: 80-100N.m

bolt torque: 18-25N.m



rear brake pump mounting bolt

rear shock absorber

•rear shock absorber

remove the up and down mounting bolt remove the rear shock absorber from the outside chasis



mounting bolt

Installation conversed steps than the remove steps.

Note

put the lubrition oil on the rear absorber head sleeve before installation

check rear fork

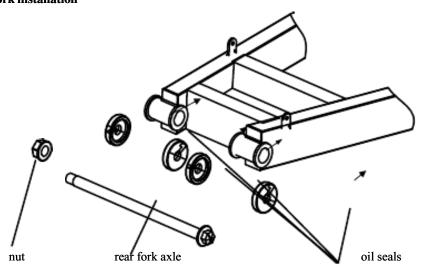
Check the rear fork damaged or chapped check chain protector abrasion or damaged

remove rear fork

remove the rear wheel and rear shock absorber remove the rear fork axle nut, remove the rear fork axle



rear fork installation



install the rear fork on the chasis , tighten the nuts according the above steps in drawing tighten nut, regulated torque: 80-100N.m

Install the rear fork and rear shock absorber (see above steps)

Braking system

- 1. Forbidden to mix dust or water when supplying the brake liquid
- 2. Do not use the different brand brake liquid to avoid the chemical change.
- 3. Please use the DOT3 brake liquid
- 4. No use of the extracted brake liquid
- 5. Please clean it by cotton material because the brake liquid will damage the paint, plastic, rubber, etc.
- 6. please well connect the soft pipe end to avoid the brake liquid be outflowed
- 7. Please clean the removed parts by brake liquid and check the aeration every interfaces by compressed air.
- 8. Please tidy up the removed parts to avoid of dust and other things.
- 9. Install the parts after making sure there is no dust on them.
- 10. Must replace the necessory appointed parts
- 11. Please disassemble them if you want to replace the brake soft pipes.
- 12. Please take out the air before removing the brake soft pipe
- 13, pay attention not to bend the brake.

Item		Standard	limit
thickness of disc brake (rear) jump of disc brake front		4	3 0.4
Inner diameter of front brake oi	pump	12.7	
Inner diameter of rear brake oil	pump	12.7	
inner diameter of caliper oil pump		34	
outer diameter of caliper oil pur	np	34	

poor function of brake

- mixed with air
- less brake liquid
- 3. leakage of brake liquid
- abrasion of disc slice
- surface dirty of disc brake and brake slice

brake shank difficulty in handling or low function of brake

- 1. block in piston caliper
- 2. block in brake system
- 3, block in main piston

brake noise

- 1, dirt or abrasion of brake slice
- 2, disc brake swing, abrasion, and dirty
- 3, poor installation of brake caliper
- difference between the disc brake and wheels
- 5. less lubrication on the connection point of brake

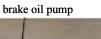
slice and hanger pin

Low function of one brake

- 1. dirt on brake slice
- 2、 difference between the disc brake and wheel
- 3, block on the caliper slippage slice

lay down the brake oil pump flatly, check the level of liqud Note:

- 1. Do not mix the dust and water when filling in the liquid
- 2. Do not use the different brand liquid to avoid chemical change
- 3. Do not damage the paint, plastic, and rubber
- 4. Remove the right side cover first before removing the rear storage liquid lid
- Use DOT3 brake liquid on front wheel, use DOT3 or DOT4 on rear wheel







remove the cover of extraction valve, lay the pump flatly install the clear plastic pipe into the extraction valve loose the brake pump extraction valve, handle the brake bar repeatly handling until all liquid has been out from the extraction valve

Note

do not make it dirty on the disc brake and brake plate replace the brake plate and clean the dirt on the disc brake if neccessory



Note

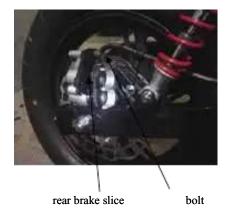
1.please make sure the level of the brake liquid before action 2.if the level is close to the mini. Limit, first please fill in the brake liquid

close the extraction valve, fill in the brake liquid to max. limit. put the film

extracting air from the separator by handling the brake shank, until no air from the pump







remove

Note

- 1. Do not damage the paint, plastic, rubber by brake liquid
- 2. Wrap the connection point of soft tube by cotton to avoid the brake liquid out.
- 1. Extract the brake liquid
- 2. Remove the brake soft tube bolt, remove the soft tube
- 3. Remove the braking light wire
- 4. Remove the soft tube of liquid box
- 5. Take the liquid box out of the brake oil pump by removing the bolts.

Remove the braking light wires remove the lid, ring loop, take out the soft tube heads from the pump





braking light wire

install the brake oil pump on the handle bar

note

- 1. Face up the UP mark at the coutermakr on the handlebar
- 2. First tighten the upper bolts

torque: 10-14N.m connect the braking list wire to the switch fill in the brake liquid, then extract the air



bolt

countermark

mounting bolts of brake pump

brake soft tube bolt



extract the brake liquid
Remove the brake pump mounting bolt
Loose the braking oil tube bolt
Take the pump out
Remove the braking soft tube bolt

Note

do not damage the paint, plastic rubber parts by the brake liquid

wrap the soft tube heads by cotton to avoid the liquid flow out

check on the disc brake same disc brake as front and rear limit: below 3.0mm