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Common instruction

Serial locations





Engine number

chasis number

Main specification (NAC12)

Model name		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
	front	77	compression ratio	10:1
vehicle weight	rear	88	max. power	9.2kw
	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		

Main maintain data(NAC12)

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

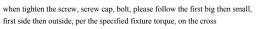
	Item	standard	limit
lubrication device			
Engine oil capacity		1.9L	
	oil exchange	1.6L	
Suggested engine oil		SAE10W/40 API SG	
fuel device		93	
fuel capacity	total	18.5	
Tuer capacity	spare	2.7	
air filter	original resistance	0.15kPa	
carburator	type	PD26JS	
fr	ont and rear wheel		
wheel	rim jump radial		2.0mm
	horizontal		2.0mm
tire	air pressure front wheel	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			
spark plug standard		A6RTC	
(contineous low	speed drive in winter)	A5RTC	
(contineous hig	h speed drive in summer)	A7RTC	
clearance of spark plu	g	0.6-0.7mm	
lubrication style		constraint lubrication style	
oil pump style		piston style	
cooling style		water cooling	
fuel device			
fuel tank capacity		18.5L	
fuel tank spare oil		2.7L	
clutch			
clutch	style	multi-plate wet	
	model	five gears transmission	

	item		standard	limit
front, rear wheel				
wheel	rim jump	radial		2.mm
		horizontal		2.0mm
	wheel axle be	ent		0.2mm
tire	air pressure	front wheel	0.225PMa	
		rear wheel	0.225MPa	
	size	front wheel	90/90-8	
		rear wheel	130/90-15	
brake				
brake			DOT3 or DOT4	
ignition loop				
	resistance val	ue (20°C) once	0.36-0.4Ω	
	2nd test withc	ut spark plug cap	5ΚΩ	
charging system, DC g	generator			
	DC generator	style	DC	
			12V	
lighting, switch, meter				
lighting, electric bulb		front light	12V-35W/35W	
	brake light, ta	uillight	12V-21/5W	
	indicator light		12V-10W×4	
	fuse		15A	
batter	capacity		12V-9Ah	
	voltage ends		13.0-13.2V(20°C)	
	charging curr	ent(standard)	0.9A(5h)	

Operation notice items

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





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

please apply the cover and cap after operation.

















the wires.

please check the ends is bent, broken before connecting the plug.











8mm screw, bolt

10mm screw, bolt

torque value (N.m) 3.5~5.0 7~11

10~14

24~30

35~45

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

Torque standard value

standard value		
Туре	torque value (N.m)	type
5mm bolt、nut	4.5~6.0	5mm screw
6mm bolt, nut	8~12	6mm screw, bolt
8mm bolt, nut	18~25	6mm screw, bolt

30~40

50~60

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	

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 fix the wire on the over heat part

10mm bolt, nut

12mm bolt、nut

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

do not nip the wire when installing the part.

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)	1	10		
exhaust pipe	1	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		

Tools

Tools		
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	\vdash
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	07631-0010000	crankshaft bearing
bearing protector	07931-1870000	
outside handle 52×55mm	0746-0010400	replace crankshaft bearing
flat reamer 20mm	07746-0040500	
mounting base	07965-GG70100	install the left bearing seal of crankshaft
crankshaft mounting bearing	07965-GM00300	
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 compressor accessory	07JME-GW20100	
movement slip proof	07725-0030000	flywheel disassemble and installation
flywheel protector	07733-0010000	remove flywheel
I while to d neutral huse laderen	•	

Lubricated parts breakdown

Engine		
parts to use	name	remark
cylinder, piston&crankshaft running and slipage	GP2 (separator oil supplier)	
running and slipage inside the crankcase		

Chasis part

Please supply 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



right indica left indicator



odometer wiring



fuel sensor wiring



stop accelerator cable

start accelerator cable



clutch switch wiring



flameout switch wiring



safe box wrinkle



cathode connection



ignition hoop



voltage regulation rectifierrectifier head



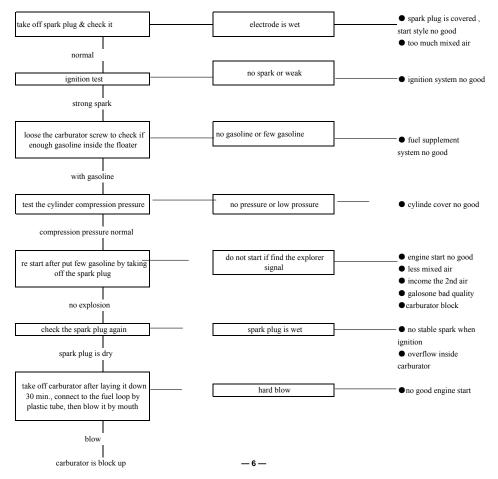
fuel tank switch

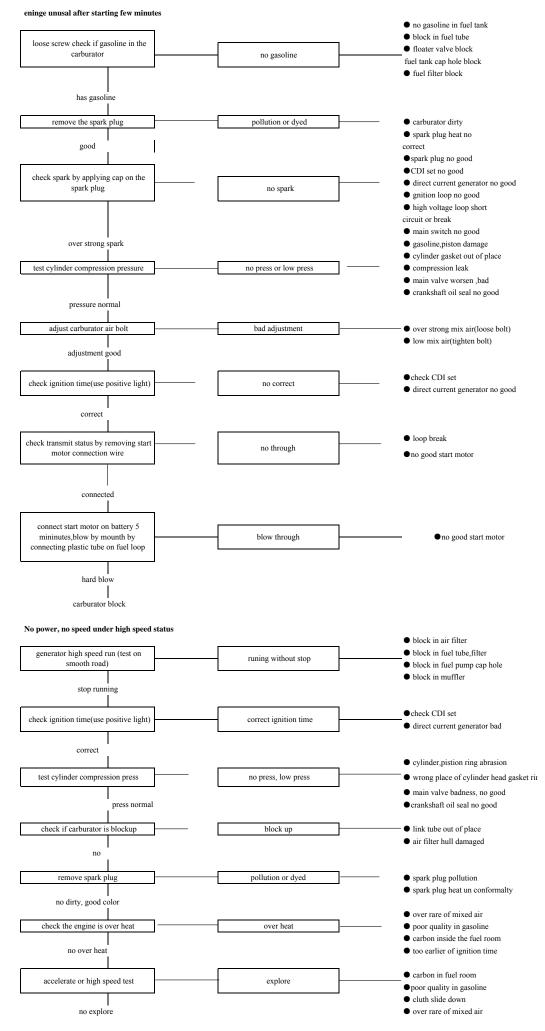
Failure Diagnose

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

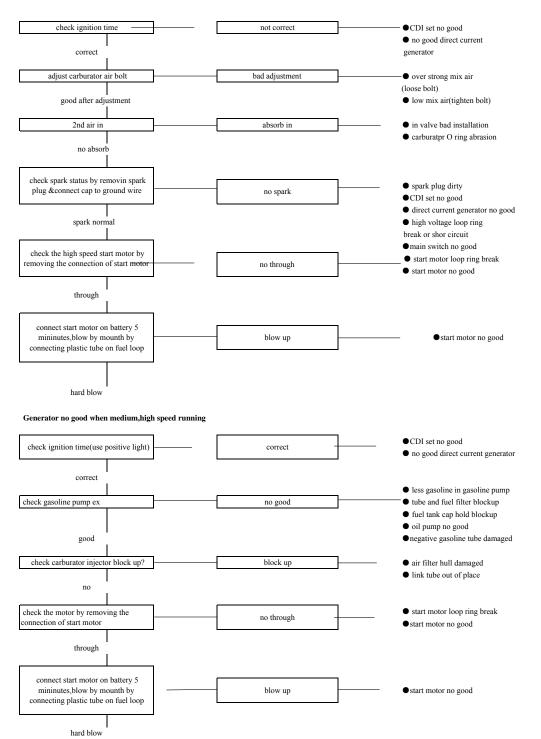
aeration tube

unable to start or difficulty in starting

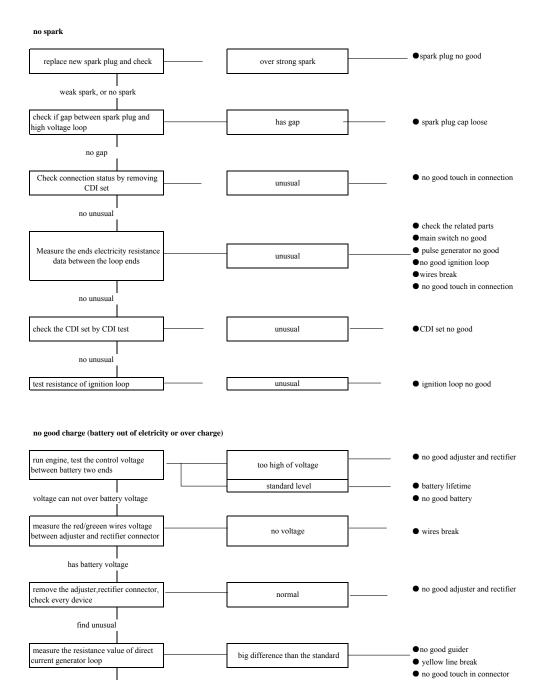




Idle speed running, bad in low speed









normal

battery lifetime

unusual

check the adjuster, rectifier

unusual no good of adjuster and rectifier

NAC12 Inspection & Adjustment

Methods of inspection & adjustment

Notice: 1. included detecting in high speed in inspections

2. " \bullet "marks the executed time by requested, " \bigcirc "marks the proposed time by manufactory

3. " $\not\approx$ " 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 80 KM/h

			inspe	ction/	adjustm	ent time			
	(inspectio	n/adjustment/ item)	art	first month	since new		remark		
			before start		every half year	Per year			
Steerin g									
	handle bar	journey/ degree of tightness/ deflexion				•			
steering device	handle bar	operating rightness				•			
de	F. wheel	steering angle in left or right				•			
ring		fork/brake piston status			•	•			
steeı	Steeting fork.w	damage			•	•			
	Steeling lock.w	Deflexion of the fork/piston bearing deflexion				•			
		Pedal measure & mechanical status	•						
	Braking pedal	Brake setup status	•	0	•	•			
		leakage/damage/install status		0	•	•			
	Sofe tube	replace brake soft tube			•	•	☆ every 4 years		
ec	Brake cup/ flume	liquid capacity	•		•	•	liquid level : R-wheel: between max. and min. limited.		
Device	Wheel & Brake	enginery/abrasion/damage							
	Caliper	replace disc brake caliper , dustproof ring rubber parts					$\frac{1}{12}$ every 2 years		
		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		
	brake liquid	Replace brake liquid					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		1		•			

			insp		n/adjus time	stment			
	(inspectio	n/adjustment/ item)	ť	ų	since	e new	remark	3	
	(before start	first month	every half year	Per year		-	
			•		•	•	(Unit: K	Pa)	
								110220040	
								前轮	后轮
		air pressure of F-Wheel & R-wheel					1人乘车	225	225
							2人乘车	250	250
W							轮胎规格	90/90-18	130/90-15
vv h		chap/damage of wheel	•		•	•			
e e		tire slot deep & unexpected wheel damage	•		•	•	remaining 0.8mm	slot deep: F-W	0.8mm R-W
1		Check if metal /stone/others on wheels	•		•	•			
D e	wheel				•	•	F-w axle: 5		
v ·		tightness of axle nut & wheel bolt					R-w axle n	ut 55-65N.m	
1 C e		rim, section of rim damage	 rim swing F-w landspace swing less swing less 2.00mm R-w landspace swing less swing less 2.00mm 						
		deflexion & loose of F-w axle				•			
		deflexion & loose of R-w axle				•			
	shock absorber spring	damage				•			
Cushion Device	suspension pole	joint loose & pole damage				•			
Cus De	shock absorber	leakage & damage				•			
		install part deflexion			•	•			
	clutch	handling distance			•	•	10-20mm	from handle to	end of handle
vice	shifter	function oil leak & oil capacity		0	•	•	oil capacit		nax. & min. limit
n De		deflexion of control set				•			
ssion	oiling	replacing gear-oil box		1			every two y	/ears	
Transmission Device	chain& chain sprocket	tightness of chain		0	•	•		dle of F/R-whe swing is 15-25	el chain sprocket, mm
		chain sprocket installation status & fixed & wear				•			
		fix status & strange noise			•	•			
	noumenon	low speed & accelerate status		0	•	•	idle speed	: 1200±100r/m	in
Е		exhaust status			•	•			
n		filter parts status		<u> </u>	•	•			
g i		oil smudge & oil capacity		<u> </u>	•	•			
n		oil leak			•	•			
e	lubricate device	oil capacity	•	<u> </u>					
		filter block status				•			
		oil pump status		0		0			

				insp		n/adjus time	stment	
						since new		
		(inspectio	on/adjustment/ item)		fürst month	every half year	Per year	remark
			fuel leak			•	•	
			link rod of carburetor status				•	
		fuel device	throttle & air valve status				•	
E			fuel filter block status				•	
n g			fuel capacity	•				
i n			replacing fuel soft tube	-				☆ every 4 years
e			water capacity	•		•	•	
		cooling device	water leak	•			•	
			radiator enginery				•	
			replacing cooling fluid					every 2 years
		Lighting device	function			•	•	
		indicator	illume/dirty/damage	•				
		lock device	function				•	
		rearview mirror	reflect status	•				
		reflector & chasis VIN no. license	dirty/damage	•				
	Odometer		function				•	
			fix loosen & damage status				•	
	Exhaust-pipe & muffler		muffler enginery				•	
		Chasis	loose & damage				•	
		other	inject lubricating grease of chassis status			•	•	
		oulei	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.



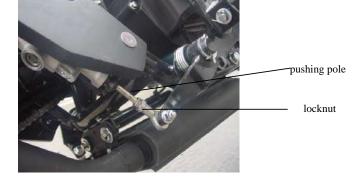
bearing of steering axle

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



pump cover



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	130/9	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

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



Press the rear suspension repeatedly, check its function Check the oil leakage, loosen, damage instance

Gearing

Clutch

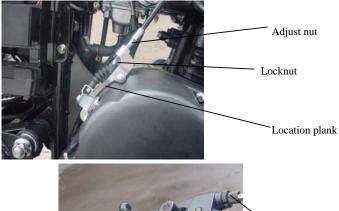
Distance of the clutch handle

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 adjuster

Lubrication Device

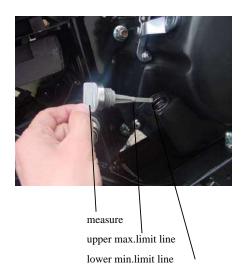
Oil leakage and measure oil capacity

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 recommened 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

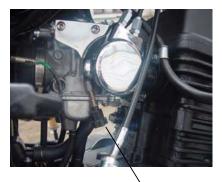
loosen the bolt, take the core out.

Clean the core if found very dirty; replace it

when damaged.

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

the bolt



Idle speed adjuster 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

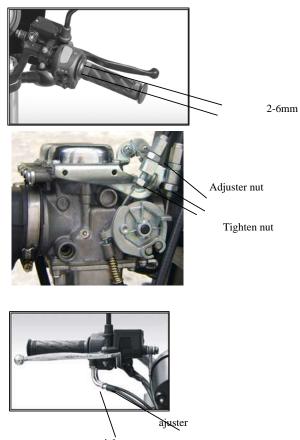
Adjust the distance on the carburator take off the cover of the carburator, adjust the nut to control the distance

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

Jam in the fuel filter Open the fuel switch, check if it is jamed, replace the new one if necessory. Tighten the nut, torque 20~25N.m



tighten nut

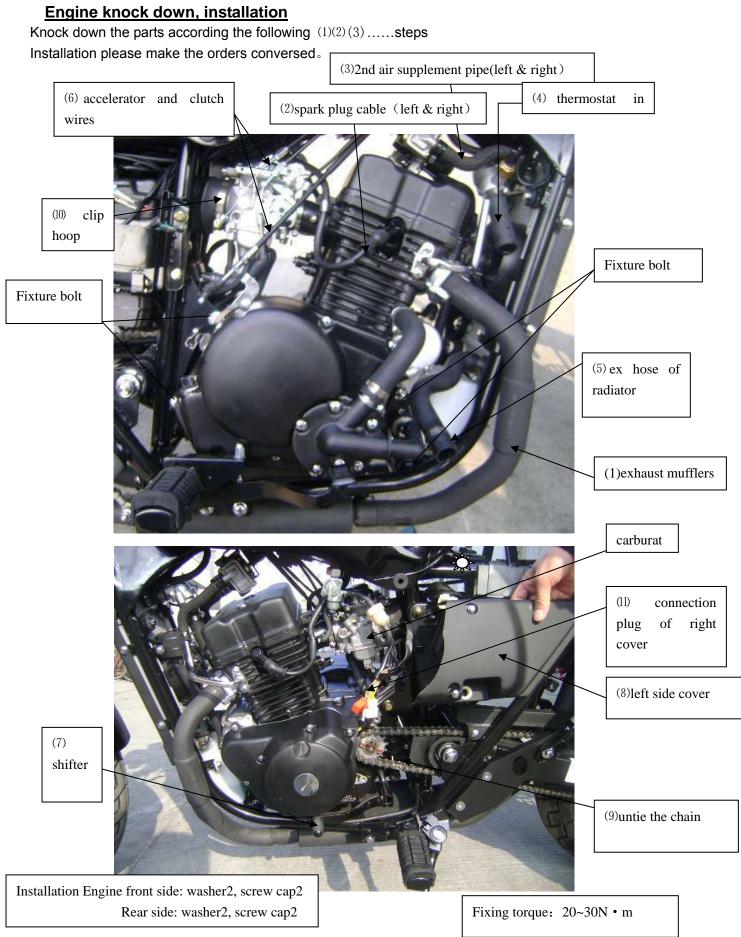


tightwire clip

fixture bolt



filter screen



— 18 —

Cylinder head, cylinder, piston, valve system

Maintain manual

checklist

Check item	re	quest	List			
Check lien	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						

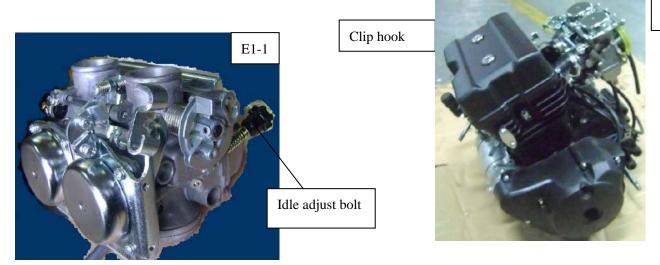
Torque

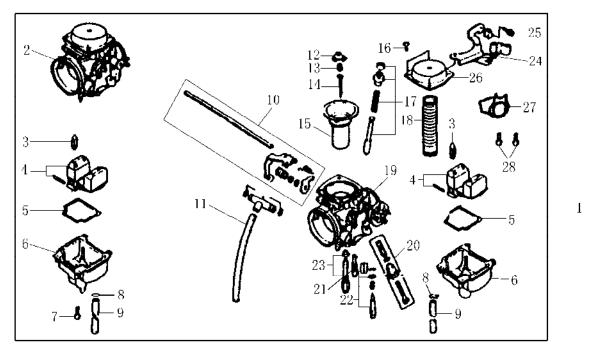
torque on both bolt heads on cylinder head : 18~22N·m

— Engine knock down, installation

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.





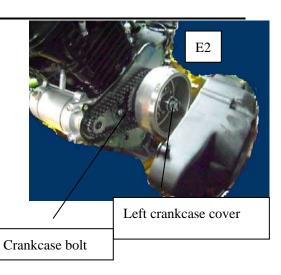
1.Carburetor, assy. 2. Left carburetor comp. 3. Float pin. 4. Float set. 5. Gasket, float chamber. 6. Chamber set, float. 7. Screw M4×14. 8. Clip, tube. 9. Over petrol tube. 10. Starter control rob comp. 11. Connecting petrol pipe comp. 12. Limited plate. 13. Spring. 14. Pin, petrol. 15. Vacuum piston 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

E1

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.

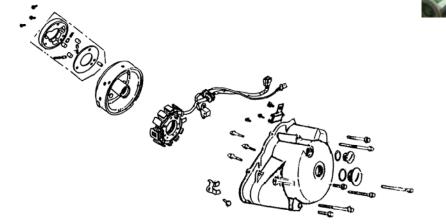


Note:

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







By special tool to disassemble

Engine knock down, installation

3、Rocker base

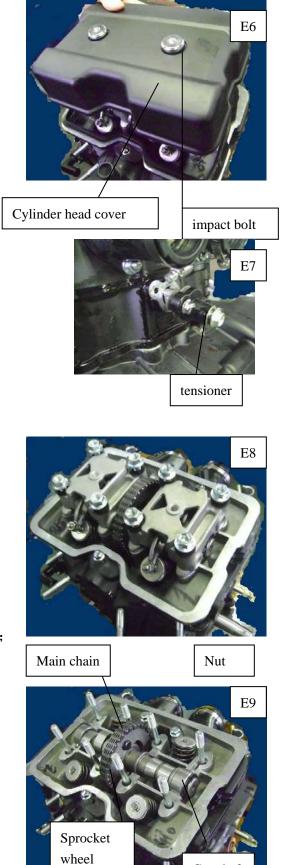
Take off the two impact bolt on cylinder head cover, remove The cylinder head cover.

Remove the tensioner bolt, take down the tension

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

4、Camshaft installation and disassemble

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



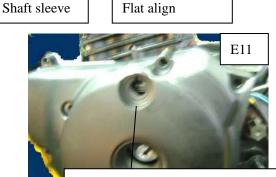
Cam haft

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,

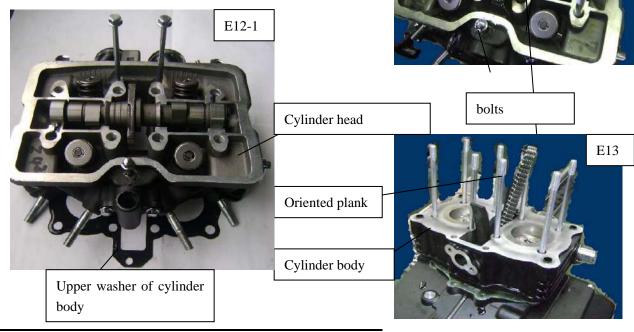




Reticle align with slot

E12

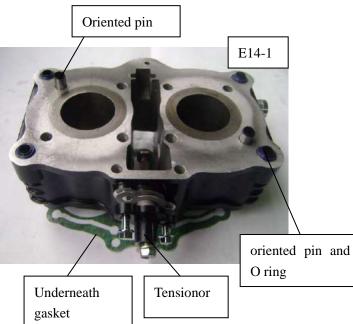
5、 Cylinder head remove and installation Remove the cylinder head by taking out the camshaft, Disassemble the bolt on cylinder body and cylinder head When installation, do not forget to put the washer, Oriented pin and O ring

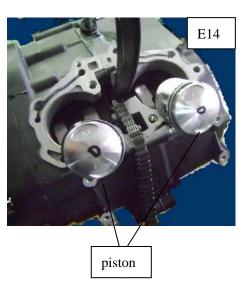


— 23 —

6、 cylinder body

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





Remove the piston pi ring(E15) by pincer, push out the Pisont pin, Remove the piston out.

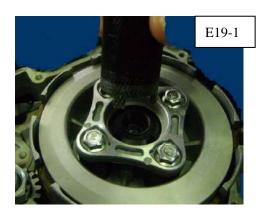
When installation, please block the intake by clean cloth To avoid the ring falling down into the cylinder body. The "IN" mark means intake E15

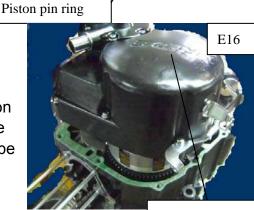
7、

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.)



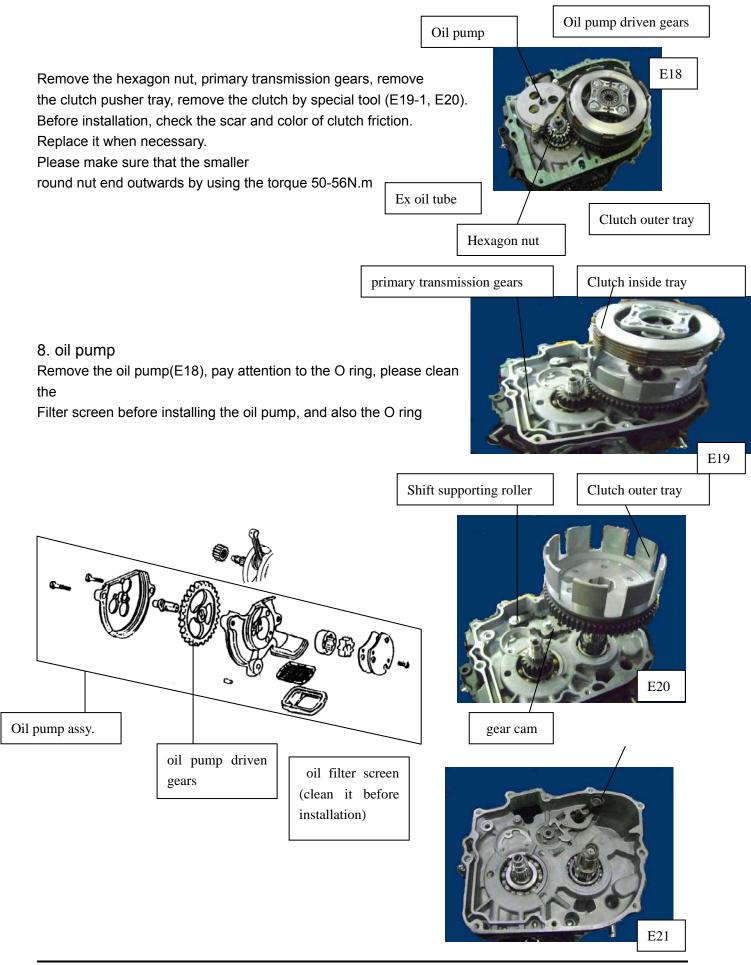


Water pump spindle

Right crankcase cover



Engine installation and disassemble



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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

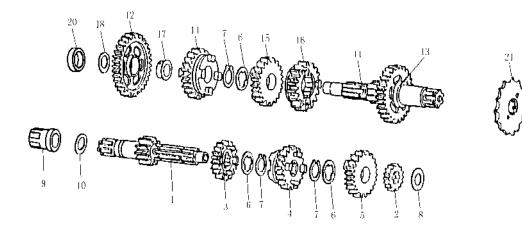
(drawing E21, E22)

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



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 23.

- 26 -

21. Sprocket, counter shaft 22. Plate, fixing Bolt M6×10/ZnD

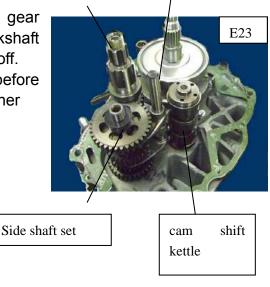


Gear fork, gear fork shaft

10、 crankshaft installation and remove

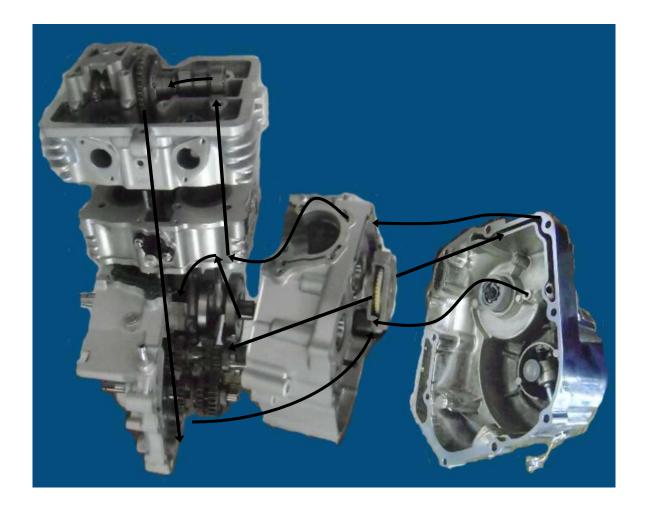
remove mainshaft set, side shaft set, gear fork, gear fork shaft and cam shift kettle, loose the crankshaft mounting bolt, then the crankshaft could be taken off. Please clean the mainshaft and sideshaft before installation. Pay attention not forget to put the washer

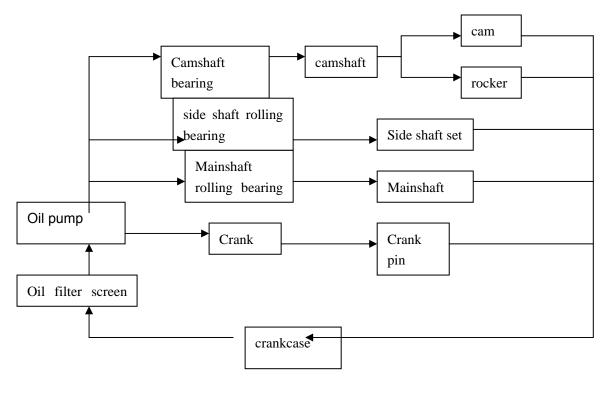




Crank shaft

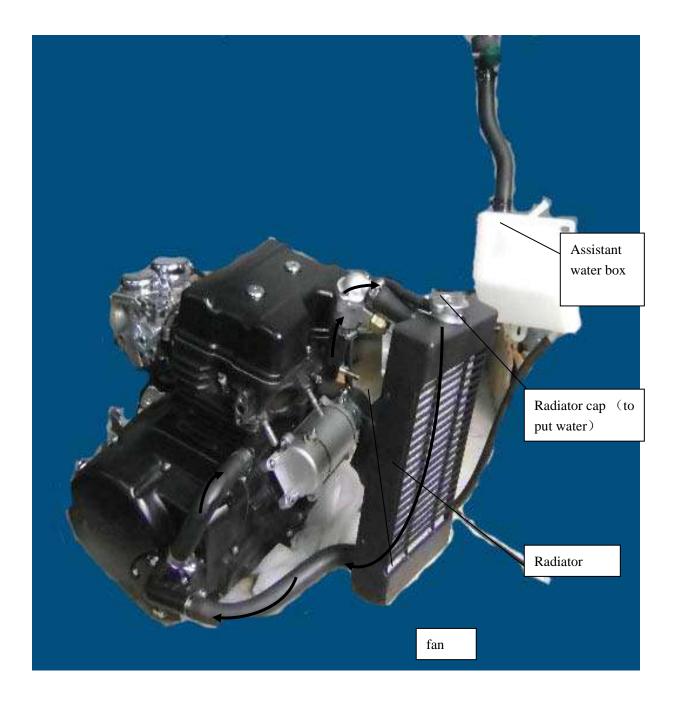
11、Engine lubrication system chart



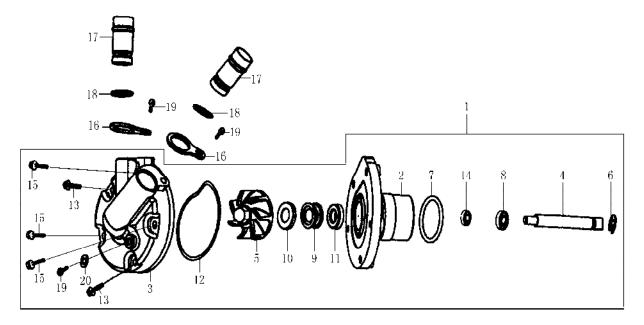


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12、engine cooling system chart



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-ring φ 36x2 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 φ 17x1.8 19. Bolt M6x12 20. Washer 6

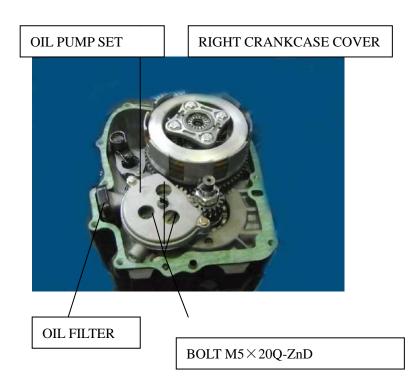
ENGINGE MAINTAIN

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

· less charged on battery

 \cdot 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
 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

— 31 —

no spark by spark plug

- spark plug damage
- \cdot 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
- \cdot 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
- ----- high voltage cap creepages

·Igination time

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

light dim

· battery discharge

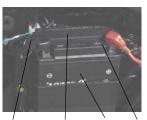
·over resistance of layout and switch

headlight can not be changed to high beam or dipped headlight -switch poor



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



positive wire strap

battery negative wire

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

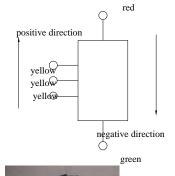
take off the terminal of battery, measure the voltage between of positive and negative terminal in battery completeness charge: 13.0 to 13.2V poor charge: less 12.3V

Regulating rectifier

system test

cut regulating rectifier Check the plug parts loosed or corrosion Test items as following positive direction: connect

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





loop system inspection

remove fuel tank

romove plug from CDI assy., test it on wiring harness

item	test point	standard scale					
ignition switch	black/white- green	on ignitation switch, no co	onn				
ignition loop	turn on light onoff, not guid						
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 end parts

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



cation (down)

iginal loop

nferior loop



ocation(upper)

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 and remove the kickstand and inset parts remove the fixture bolt aremove fastness bolt and onoff of light fire installation way is the in opposition method of disassembly as fix



oolton ignition switch



switch plug

Check on handle bar (refer to the chapter 10) remove the cable plug of the handlebar 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 \underbrace{kit}_{kit} Fuction list of the lef

Fuction list of the right onoff

please check them according to the right next drawing.

right onoff check list

R.	明ナ	关功	能表		把动	开关功	供書		熄火	开关功	能表
11	/黄	R	茱	橙/蓝	1994). 1988	174	HEAC	1	(RE		
*	0	-0-	0	0	11	R	費/紅		\$X	業/白	缐
÷00€		0	-0-	0	F)	0-	-0		×	0-	-0
•									()		

喇叭开关功能表

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

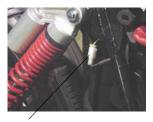


clutch bar clutch onoff ends

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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



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

Replace bulb

Headlight

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

remove the bulb holder (remove lamp holder of headlamp replace the bulb if necce replacing lamp if possible

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









fixture bolt



bulb holder



fixture bolt of handle bar fork nut bearing nut



bulb holder

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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

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°C
sensor general temperature	125°C
cooling water content	full around 1.6L(water bottle around 0.4L)

Notice of usage coolant:

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

leakage

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

• 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



water release bolt clip

clip hoop water pipe



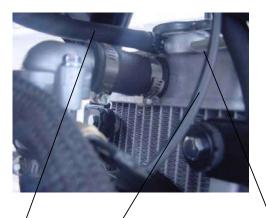
sensor plug

fan motor plug

radiator cover



fixture bolt



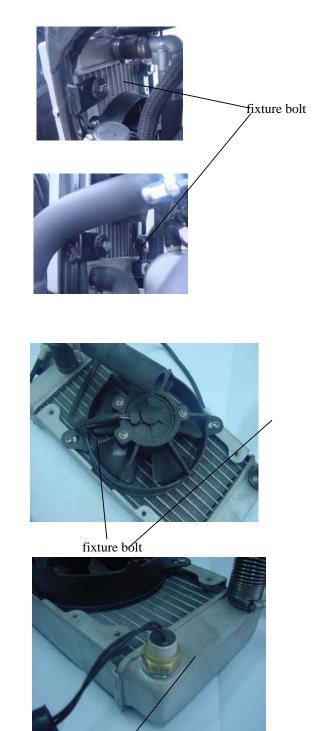
Loosen the clip hook of thermostat water pipe loosen the clip hook of the water bottle hosing, and depart from the radiator

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water pipe hosing clip hoop of thermostat

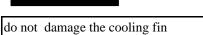
clip hoop

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



fan switch sensor

fan switch heat sensor



Tradiator breakdown

remove the 2 bolts, take out the fan completely.

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

• 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.

• 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



cooling fin

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

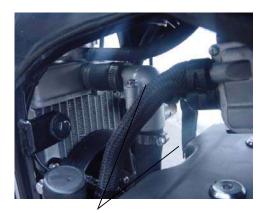
• thermostat

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



sensor wire

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



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

• 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

•water pump

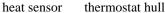
• check on mechanism seal

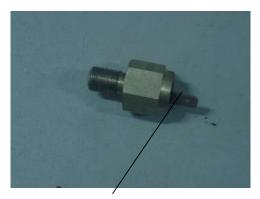
check if any leakage on the testing hole underneath the water pump. If yes, please replace the mechanism seal

• Remove the water pump

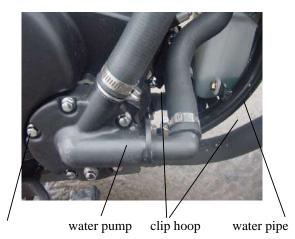
eject the coolant







heat sensor connector



bolt

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

Φ30*Φ20*1 flat washer



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

Front wheel, front suspension device, steering device

Maintain information

Notes:

- $1\,{}_{\!\scriptscriptstyle \rm N}$ Do not press over-load on the wheels and put anything on the wheel. Pay attention not to damage
- the wheel during maintaining.
- $2\sqrt{2}$ 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.

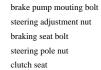
4. Please remove the disc when replacing the tire. Otherwise, please do not load any on the disc plate but hold the rim with the wood board.

Maintain standard

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

Fixture torque

Handlebar mounting bolt	24-30N.m	1
fork bushing bolt	15-25N.m	:
brake disc nut	14-16N.m	
fork leg bolt	15-30N.m	
front axle nut	55-65N.m	



24-30N.m 23-27N.m 10-14N.m 90-120N.m 7-11N.m

failture diagnose

hard in controlling the handlebar over tighten on the steering adjustment nut steering axle damaged twist when steering by the cables and operating wires. low tire pressure Impossible to operate the handlebar fork bent front axle bent, tire damaged rear fork bent noise in the front suspention touch on the fork leg and bottom less oil capacity loose on fixture parts for suspensions front wheel shaking rim out of shape

Handle bar

remove

remove the following parts 1. clutch bar holder 2. handle switch

dismove the following parts from right handle bar 1. brake pump 2. handle switch 3. fuel accelerater handle grip

loose on front wheel axle tire no good related mouting parts no well tigtened related to the front wheel axle balance of wheels no good too soft of the front suspension over work on the spring a little leftover of oil capaicty air pressure of fork no good no usage of stickness oil too hard of front suspension oil no good quality inside the fork leg no good adjustment of air pressure fork legs bent block-up of the oil passageway no usage of stickness proper oil

brake pump

fuel accelerater handle grip



handle switch

handle switch



left handle bar

right handlebar

loosen the mounting bolt , remove the handle bar

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

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.



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

steering bolt fuel accelerated grip

handlebar mounting bolt



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





bolt of faceplate



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



left grip

small bolts

air valve pole

UP (mark)

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



soft axle cable

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

mounting bolt

small bolt

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

Next

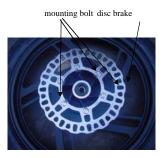
remove the 6 bolt, remove the disc brake

Warning

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



wheel bearing



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



front wheel axle



speed gears

front axle nut

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

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

Note

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

Note

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

Note

Do not bend or twist the brake soft pipe

Loose the face plate bolt



brake pump mounting bolt

front fen



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

— 45 — steering clamp

ste

steering bolt

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

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.



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
- $\left(5\right)$ less pressure in the tire

too soft of the rear shock absorber

less oil fluid in the cushion

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

		standard	limit (mm)
wheel axle	bend radious		0.2
jump of rear wheel	axle direction		2.0
	radial		2.0

• Regualted torque

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

• 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

It 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 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

check on the bent of wheel bearing

wheel bearing bent data

limit: 0.2mm above, please replace asap.

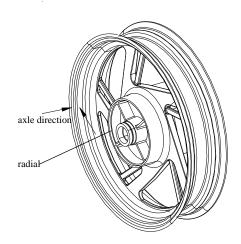
check damage of the rear wheel bearing

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



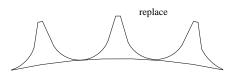
good



• check the driven sprocket replace new if the driven sprocket abrasion, out of shaped

Note

meanwhile check the driven sprocket&main sprocket

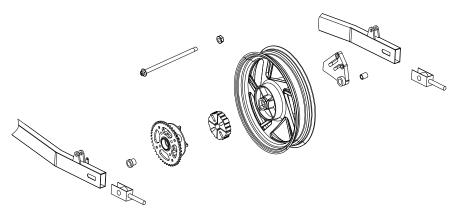


cushion

• 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

Note

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)



adjuster nut

adjuster

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 wheel axle nut

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



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

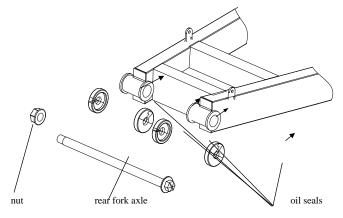
remove the rear wheel and rear shock absorber remove the rear fork axle nut, remove the rear fork axle



— 49 — rear fork axle nut

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: 80-100 N.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_{2} 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)		4	3
jump of disc brake front			0.4
	rear		0.3
Inner diameter of front brake oil pump		12.7	
Inner diameter of rear brake oil pump		12.7	
inner diameter of caliper oil pump		34	
outer diameter of caliper oil pump		34	

poor function of brake

- 1 mixed with air
- 2. less brake liquid
- 3、 leakage of brake liquid
- 4, abrasion of disc slice
- 5, 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
- 4、 difference between the disc brake and wheels
- 5_{γ} less lubrication on the connection point of brake

slice and hanger pin

Low function of one brake

- 1、 dirt on brake slice
- $2_{\scriptscriptstyle N}$ difference between the disc brake and wheel

brake oil pump

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
- 5. 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



extraction valve

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

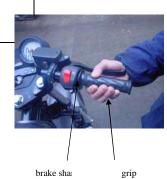
do not make it dirty on the disc brake and brake plate replace the brake plate and clean the dirt on the disc brake if neccessory

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

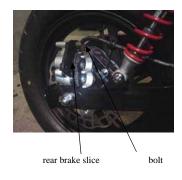
extracting air from the separator by handling the brake shank, until no air from the pump





front brake slice

bolt





brake oil pump



Note

soft tube

1、 Extract the brake liquid

by removing the bolts.

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

Remove the braking light wires

 2_{s} Remove the brake soft tube bolt, remove the

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.



brake soft tube bolt bolt



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

remove the lid, ring loop, take out the soft tube heads from the pump

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

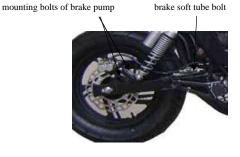


countermark

bolt

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

Check the gap between disc brake measure the jump of the disc brake front disc: below 0.4mm limit: rear disc brake: below 0.3mm

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