Collaboration



GTR50 Service Manual



SCONTENTSS

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THE CONTENTS OF THIS MANUAL PROVIDE THE SERVICE INFORMATION FOR CPI \GTR50.

MOST CHAPTERS START WITH A SYSTEM OR ASSEMBLY ILLUSTRATION AND SPECIFICATIONS THE FOLLOWING PAGES GIVE DETAIL PROCEDURES.

IF YOU DO NOT KNOW WHAT THE SOURCE OF THE TROUBLE IS, PLEASE GO TO THE TROUBLESHOOTERS FOR ADDITIONAL HELP.

ALL THE CONTENTS OF THIS MANUAL ARE BASED ON THE LATEST MODEL INFORMATION CPI RESERVES THE RIGHT TO MAKE CHANGE AT ANY TIME WITHOUT NOTICE AND WITHOUT ANY RESPONSIBILITY OR ENGAGEMENT ON OUR PART.

ENGINE WILL NOT START OR IS HARD TO START

			PROBABLE CAUSE
	CHECK IF FUEL REACHES	FUEL DOES NOT REACH	(1) NO FUEL IN TANK
	CARBURETOR	CARBURETOR	(2) CLOGGED FUEL LINE BETWEEN
			FUEL TANK AND CARBURETOR
			(3) CLOGGED FUEL VALVE
1	FUEL REACHES		(4) CLOGGED FUEL TANK CAP
	CARBURETOR		BREATHER HOLE
	 		
	REMOVE SPARK PLUG AND	WEAK OR NO SPARK	(1) FAULTY OR FOULED PLUG
	TEST SPARK		(2) FAULTY C.D.I.
2			(3) BROKEN OR SHORTED HIGH
			TENSION CORD
	GOOD SPARK		(4) FAULTY IGNITION SWITCH
			(5) INCORRECT IGNITION TIMING
	TEST CYLINDER	LOW COMPRESSION	(1) ENGINE NOT CRANKED
	COMPRESSION		(2) NO VALVE CLEARANCE
			(3) VALVE STUCK OPEN
	★		(4) WORN CYLINDER AND PISTON
3			RINGS
	NORMAL COMPRESSION		(5) BLOWN CYLINDER HEAD GASKET
	↓		(6) FLAW IN CYLINDER HEAD
			(7) INCORRECT VALVE TIMING
			(8) BURNED VALVE
	START ENGINE	ENGINE FIRES, BUT	(1) CHOKE VALVE OPEN
	ENGINE FIRES	DOES NOT START	(2) CARBURETOR PILOT SCREW OPEN
4			(3) AIR LEAKING THROUGH IN TAKE
	*		PIPE
			(4) INCORRECT IGNITION TIMING
	REMOVE SPARK PLUG	WET PLUG	(1) FLOODED CARBURETOR
5	DRY PLUG		(2) CHOKE VALVE CLOSED
	START ENGINE WITH		
6	CHOKE CLOSED		

ENGINE LACKS POWER

	FLOW PATH	BAD SITUATION	PROBABLE CAUSE
	RAISE WHEELS OFF	WHEELS DO NOT SPIN	(1) DRAGGING BRAKE
	GROUND AND SPIN	FREELY	(2) FAULTY WHEEL BEARING
1	WHEELS SPIN FREELY		(3) OVERTIGHTENED DRIVE CHAIN
			(4) WHEEL BEARING NOT
	↓		LUBRICATED PROPERLY
	CHECK TIRE	INCORRECT TIRE	(1) PUNCTURED TIRE
	PRESSURE	PRESSURE	(2) FAULTY TIRE VALVE
2	NORMAL PRESSURE		
	\		
	RAPIDLY	DOES NOT ACCELERATE	(1) SLIPPING CLUTCH
	ACCELERATE FROM	WITH ENGINE SPEED	(2) WORN OR UNEVEN CLUTCH
3	LOW TO SECOND	RAISED	FACINGS
	ACCELERATES		(3) CLUTCH PLATE WARPED
			
	REV UP GRADUALLY	ENGINE SPEED DOES	(1) CARBURETOR CHOKE CLOSED
		NOT INCREASE	(2) CLOGGED AIR CLEANER
4	ENGINE SPEED		(3) CLOGGED FUEL LINE
4	INCREASES		(4) CLOGGED FUEL TANK CAP
			BREATHER HOLE
	+		(5) CLOGGED MUFFLER
	CHECK IGNITION	INCORRECT TIMING	
	TIMING		
5	CORRECT TIMING		INCORRECT TIMING ADJUSTMENT
	\		
	CHECK VALVE	INCORRECT VALVE	
	CLEARANCE		
6	CORRECT VALVE		(1) INCORRECT VALVE CLEARANCE
	CLEARANCE		(2) WORN VALVE SEAT
	\		
	,		

7	TEST CYLINDER COMPRESSION NORMAL COMPRESSION	LOSS OF COMPRESSION	 (1)VALVE STUCK OPEN (2) WORN CYLINDER AND PISTON RINGS (3) BLOWN CYLINDER HEAD GASKET (4) INCORRECT VALVE TIMING (5) FLAWS IN CYLINDER HEAD OR CYLINDER
8	CHECK CARBURETOR FOR CLOGGING CARBURETOR NOT CLOGGED	CARBURETOR CLOGGED	(1) CARBURETOR JETS CLOGGED
9	REMOVE SPARK PLUG	PLUG FOULED OR DISCOLORED COLORED	(1) FOULED PLUG (2) INCORRECT HEAT RANGE PLUG
10	CHECK OIL LEVEL AND CONDITION CORRECT ENGINE OIL LEVEL	OIL DIRTY OR LEVEL INCORRECT	(1) LEVEL TOO LOW OR HIGH (2) CONTAMINATED OIL
11	REMOVE CYLINDER HEAD COVER AND CHECK SUFFICIENTLY LUBRICATION	INSUFFICIENTLY LUBRICATED	(1) CLOGGED OIL PASSAGE (2) POOR OIL PUMP DELIVERY
12	CHECK IF ENGINE OVERHEATS ENGINE DOES NOT OVERHEAT	ENGINE OVERHEATS	(1) EXCESSIVE CARBON IN COMBUSTION CHAMBER (2) INCORRECT FUEL (3) SLIPPING CLUTCH
13	RAPIDLY ACCELERATE OR URN AT HIGH SPEEDS ENGINE DOES NOT KNOCK	ENGINE KNOCKS	(1) WORN PISTON OR CYLINDER (2) MIXTURE TOO LEAN (3) INCORRECT FUEL (4) EXCESSIVE CARBON IN COMBUSTION CHAMBER (5) LGNITION TIMING TOO EARLY

POOR PERFORMANCE AT IDLE AND LOW SPEEDS

	FLOW PATH	BAD SITUATION	PROBABLE CAUSE
1	CHECK IGNITION TMING AND VALVE CLEARANCE CORRECT TIMING AND CLEARANCE	INCORRECT TIMING AND CLEARANCE	(1) INCORRECT TIMING ADJUSTMENT (2) INCORRECT VALVE CLEARANCE
2	CHECK CARBURETOR PILOT SCREW ADJUSTMENT CORRECTLY ADJUSTED	INCORRECTLY ADJUSTED	(1) MIXTURE TOO LEAN (2) MIXTURE TOO RICH
3	CHECK FOR AIR LEAKS NO AIR LEAKS	AIR LEAKS	(1) FAULTY CARBURETOR PACKING (2) CARBURETOR NOT SECURELY TIGHTENED (3) FAULTY INTAKE PIPE GASKET
4	REMOVE SPARK PLUG AND TEST SPARK	WEAK OR INTERMITTENT SPARK	(1) FAULTY OR FOULED PLUG (2) FAULTY C.D.I. (3) MAGNET AT FAULT

POOR PERFORMANCE AT HIGH SPEED

	FLOW PATH	BAD SITUATION	PROBABLE CAUSE
1	CHECK IGNITION TIMING AND VALVE CLEARANCE CORRECT TIMING AND CLEARANCE	INCORRECT TIMING AND CLEARANCE	(1) INCORRECT TIMING ADJUSTMENT (2) INCORRECT VALVE CLEARANCE
2	DISCONNECT FUEL LINE AT CARBURETOR AND CHECK FOR CLOGGING UNRESTRICTED FUEL FLOW	RESTRICTED FUEL FLOW	 (1) EMPTY FUEL TANK (2) CLOGGED FUEL LINE (3) CLOGGED FUEL TANK CAP BREATHER HOLE (4) CLOGGED FUEL PETCOCK
3	CHECK FUEL FILTER, FUEL VALVE AND CARBURETOR JET FOR CLOGGING NOT CLOGGED	CLOGGED	(1) CLOGGED JET (2) CLOGGED FUEL FILTER (3) CLOGGED FUEL VALVE
4	REPLACE CARBURETOR MAIN JET CONDITION IMPROVED	CONDITION AGGRAVATED	 (1) JET SIZE TOO SMALL (2) IF CONDITION IS IMPROVED WITH SMALL JET: A) CLOGGED AIR CLEANER B) CHOKE NOT OPENED FULLY
5	CHECK VALVE TIMING CORRECT	INCORRECT	INCORRECT VALVE TIMING ADJUSTMENT
6	CHECK VALVE SPRING TENSION SPRING TENSION CORRECT	WORN OR BROKEN SPRING	FAULTY VALVE SPRING

SMOKY EXHAUST

	FLOW PATH	BAD SITUATION	PROBABLE CAUSE
	RUN MOTORCYCLE A		(1) WORN CYLINDER AND PISTON
	LONG DISTANCE AT		RINGS
	HIGH SPEED		(2) OIL LEVEL TOO HIGH
1	THIN EXHAUST	BLACK SMOKE EMITTED	(3) PISTON RINGS INCORRECTLY
	EMITTED		INSTALLED
	\		(4) FAULTY PISTON OR CYLINDER
			(5) FLAWS IN CYLINDER HEAD
	RETURN THROTTLE		(1) WORN INTAKE VALVE GUIDE OR
	GRIP QUICKLY		STEM
2		WHITE SMOKE EMITTED	(2) EXCESSIVE VALVE-TO-GUIDE
			CLEARANCE

POOR HANDLING

	FLOW PATH	BAD SITUATION	PROBABLE CAUSE
	IF STEELING IS HEAVY		(1) STEERING HEAD ADJUSTER TOO
1		CHECK TIRE PRESSURE	TIGHT
1		CHECK TIKE PRESSURE	(2) DAMAGED STEERING CONES OR
			STEEL BALLS
	IF EITHER WHEEL IS		(1) EXCESSIVE WHEEL BEARING
	WOBBLING		PLAY
			(2) DISTORTED RIM
			(3) IMPROPERLY INSTALLED WHEEL
2			HUB
			(4) SWING ARM PIVOT BUSHING
			EXCESSIVELY WORN
			(5) DISTORTED FRAME
			(6) IMPROPER DRIVE CHAIN TENSION
			OR ADJUSTMENT
	IF THE MOTORCYCLE		(1) MISAPPLIED SHOCK ABSORBER
	PULLS TO ONE SIDE		(2) FRONT AND REAR WHEELS NOT
3			ALIGNED
			(3) BENT FRONT FORK
			(4) BENT SWING ARM

ENGINE REMOVAL

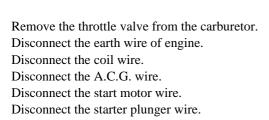
1. Open and remove the seat.



2. Remove the rear luggage case.



Remove the side cover.





ENGINE REMOVAL/INSTALLATION

Disconnect the fuel & the vacuum tube. Disconnect the spark plug cap. Disconnect the rear brake cable.

Remove the setting bolt of rear cushion. Remove the setting bolt of engine. Remove the engine.





ENGINE INSTALLATION

The installation sequence is essentially the reverse of removal.

NOTE:

Route all the wire and cable properly. Adjust the throttle cable free play. clearance.

Adjust the rear brake free play.



TORQUE

TORQUE STANDARD

SORTS	TORQUE(kg-m)
5mm screw, nut	0.5
6mm screw, nut	1.2
8mm screw, nut	2.7
10mm screw, nut	4.0
12mm screw, nut	5.5

INNER OF ENGING

ITEM	AMOUNT	DIAMETER(mm)	TORUQUE(kg-m)	REMARKS
Cylinder head bolt, A	2	8	3.0	Stud bolt side
Cylinder head bolt, B	2	8	3.0	Stud bolt side
EXH. pipe joint bolt	2	8	0.9	Spread on thread
Drive face nut	1	17	3.5~4.0	
A.C.G. nut	1	17	3.5~4.0	
Oil pump bolt	2	6	0.8	
Cylinder head cover bolt	2	10	1.5	
Spark plug	1	12	1.8	

FRAME

FRAME				
ITEM	AMOUT	DIAMETER(mm)	TORQUE(kg-m)	
Shaft steering nut	1	10	4.5	
FR. Wheel axle nut	1	12	6.0	
RR. Wheel axle nut	1	16	9.0	
RR. shock absorber bolt (up)	1	10	3.0	
RR. shock absorber bolt (down)	1	8	3.0	
ENG. Hanger BRKT. Bolt	1	10	5.5	

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LUBRICATION SYSTEM

OIL PUMP REMOVAL

Remove luggage box & side covers.

Disconnect the oil tube of oil pump (intake & output).

Remove the oil pump control cable.

Remove the setting bolt of oil pump.

Remove the oil pump.

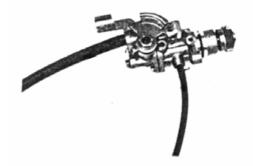


OIL PUMP INSPECTION

Check the O-ring, gear & seal for wear or any damage.

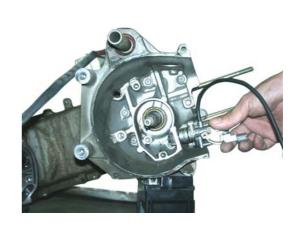
NOTE:

Do not disassembly the oil pump body to prevent any damage.



OIL PUMP INSTALLATION

Coating some oil on the O-ring. Install the oil pump onto the crankcase.



Connect the oil tube.

Connect the oil pump control cable and adjust the clearance.

LUBRICATION SYSTEM

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RELEASE THE AIR OF OIL PUMP

Loosen the drain screw.

Let the oil drain out in smoothly then tight the screw.

NOTE:

If the oil can not drain out in smoothly, it is mean some air still in the oil pump.



THROTTLE VALVE REMOVAL

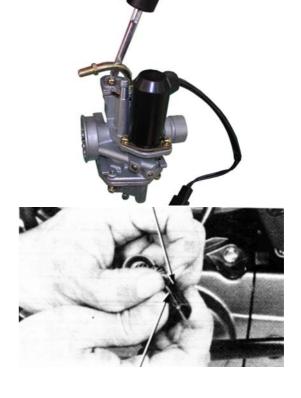
Remove the seat.

Remove the luggage box.

Loose the carburetor cap of throttle valve.

Remove the throttle valve from the carburetor.

Remove the throttle valve from the throttle cable.



THROTTLE VALVE DISASSEMBLY

Remove the retainer and take out the jet needle clip from the throttle valve.

INSPECTION

Check the throttle valve and the jet needle surface of dirt, scratches or wear.



CARBURETOR REMOVAL

Remove the side cover

Remove the luggage box ASSY.

Remove the starter plunger wire.

Remove the throttle cable.

Remove the fuel tube from the carburetor.

Loose the screw of the air cleaner band.

Loose the bolts between the intake pipe & the carburetor.

Remove the carburetor.

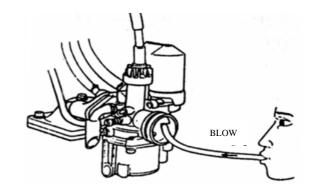


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Remove the carburetor and let it cool down by nature for thirty minutes.

Check the current of air route as show.

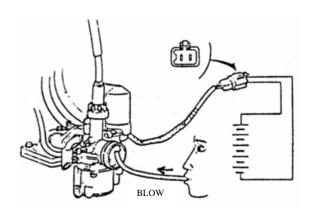
GOOD : PASSABLE NG :IMPASSABLE



Connect a full charged battery to the starter plunger wore for five minutes.

Check the current of route as show.

GOOD : IMPASSABLE NG : PASSABLE



FLOAT CHAMBER DISASSEMBLY

Remove the setting screws. Remove the chamber cap.



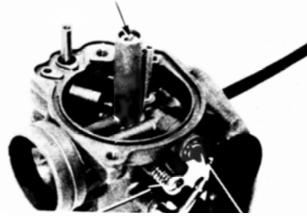
Remove the float setting bolt. Remove the float pin. Remove the float. Remove the float valve.



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Remove the main jet, slow jet, needle seat & air screw.

Clean all the jet & all the hole by using high pressure air.



FUEL HEIGHT INSPECTION

Measure the height by using a gauge.

STANDARD: 18.5 mm



CARBURETOR INSTALLATION

The installation sequence is essentially the reverse of remove.



Adjust the clearance of the throttle valve cable.

Adjust the air screw.

STANDARD: 1+1/2round

Adjust the idle speed.

STANDSRD: 1800±100 rpm



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REED VALVE REMOVAL

Remove the carburetor. Remove the intake pipe. Remove the reed valve.



REED VALVE INSPECTION

Measure the height of reed valve stopper.

STANDARD: 6.0-6.4 mm

Check the flatness of reed valve. **SERVOCE LIMIT: 7.0** mm



REED VALVE INSTALLATION

The installation sequence is essentially the reverse of removal.



CYLINDER HEAD REMOVAL

Put the right side of vehicle on the ground.

Attention! Please have a protected pad on the proper location of the ground to avoid crash or damage of plastic parts.



Remove the spark plug cap.

Remove the exhaust muffler.

Remove the cylinder air shrouds.

Remove the spark plug.

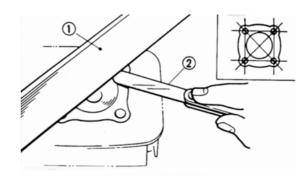
Remove the setting bolts of cylinder head.

Remove the cylinder head.



Cylinder head flatness inspection.

SERVICE LIMIT: 0.05 mm



CYLINDER REMOVAL

Remove the cylinder head.

Remove the cylinder.

Remove the cylinder gasket.

NOTE:

Clean all the material of cylinder gasket with a scraper.



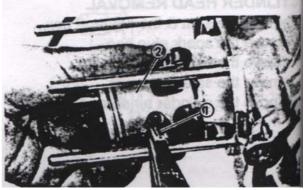
PISTON REMOVAL

Remove the piston pin clip.

NOTE:

Do not let the clip fall into the crankcase.

Remove the piston pin. Remove the piston.



PISTON / PISTON RING INSPECTION

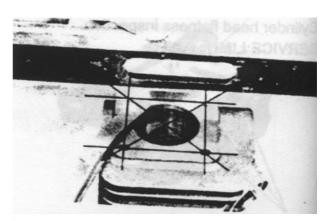
Remove the piston rings.

Clean the grooves for carbon deposit completely. **NOTE:**

Do not damage the piston ring during removal.



Cylinder block flatness inspections: **SERVICE LIMITS: 0.05** mm



CYLINDER INSPECTION

Inspect the cylinder bore for wear or damage. Measure the cylinder I. D. at three places; top, middle and bottom of piston travel and in two directions at right angle to each other.

STANDARD:39.993-40.013mm SERVICE LIMITS: 40.2 mm



Calculate the piston-to-cylinder clearance.

SERVICE LIMITS: 0.1 mm

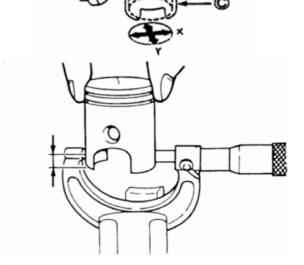
Calculate the taper and out of round.

SERVICE LIMITS:

Out of round: 0.05 mm Taper: 0.05 mm

Measure piston pin bore O. D. at a point 10 mm from the bottom.

STANDARD:39.95 mm

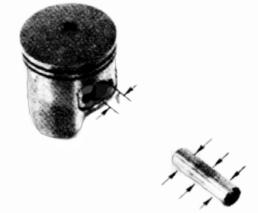


Measure piston pin bore I. D. in two directions at right angle to each other.

STANDARD: 12.05 mm

Measure the piston pin O. D. at the front, center and rear and in two directions across from each other.

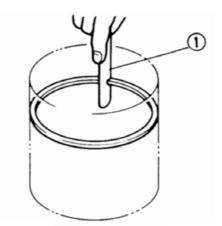
STANDARD: 12.05 mm



Insert each piston ring into cylinder with the piston and measure the ring end gap in the cylinder to a point 10 mm (0.04 in) from the bottom.

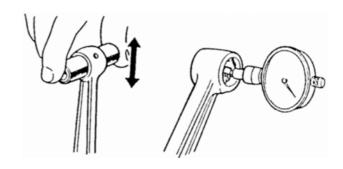
STANDARD:

Top / Second: 0.15~0.35 mm



Connecting rod small end inspections:

SERVICE LIMITS: 14.06 mm.



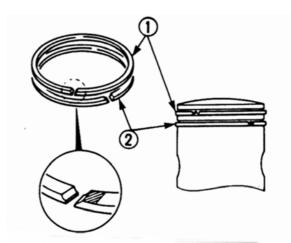
PISTON RING INSTALLATION

Clean the piston ring grooves thoroughly. Install the piston ring.



NOTE:

- **★** Avoid piston and piston ring damage during installation.
- **★** All ring should be installed with the mark facing up.



PISTON INSTALLATION

Install the piston, piston pin and new piston pin clips.

NOTE:

- **ℋ Piston the "EX" mark on the exhaust side.**
- **ℋ** Do not let the piston pin clip fall into the crankcase.



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CYLINDER HEAD/CYLINDER/PISTON

CYLINDER INSTALLATION

Install the cylinder gasket.

Coat the cylinder and piston ring with the engine oil. Install the cylinder.



COMPRESSION PREASURE TEST NOTE:

Worm up the engine before test.

Remove the seat & luggage box.
Remove the spark plug cap & spark plug.
Turn the throttle grip with the throttle valve on the upset position.

Start the motor for 7-8 seconds for test the pressure

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LEFT CRANKCASE COVER REMOVAL

Remove the start kick.

Remove the crankcase cover.

Remove the dowel pin.

Remove the kick pinion with the kick friction spring.

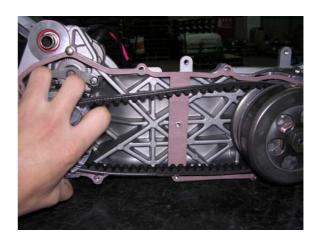
Disconnect the kick start spring.



Remove the cir-clip & plate washer. Remove the kick spindle bush. Remove the spindle & the spring.



Remove the O-ring.
Remove the setting nut of clutch outer.

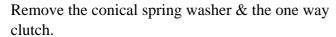


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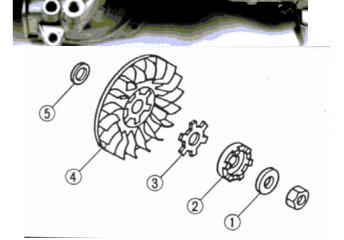
TRANSMISSION SYSTEM

Remove the clutch outer & driven pulley. Remove the drive belt.

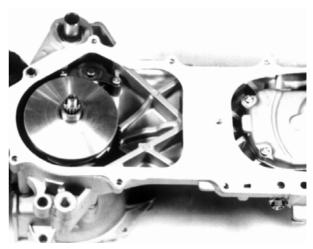
Remove the setting nut of driver face.



Remove the claw washer, driver face & plat washer.



Remove the movable drive face & collar.

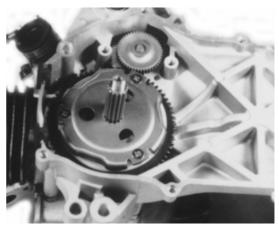


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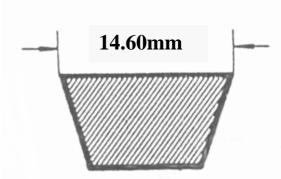
START CLUTCH REMOVAL

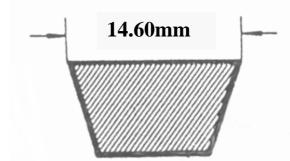
Remove the starter clutch & starter wheel. Remove the gear boss. Remove the plat washer.

Remove the idle gear plate. Remove the idle gear.





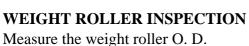




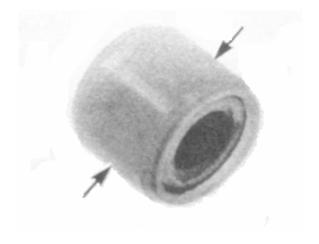
DRIVEN BELT INSPECTION

Inspect the belt for crack wear or any damage measure the width of belt.

SERVICE LIMIT: 14.60 mm



SERVICE LIMIT: 14.5 mm

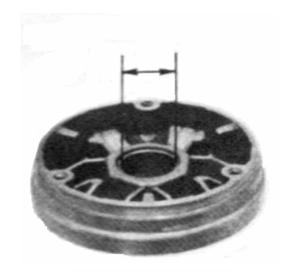


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MOVABLE DRIVEN FACE INSPECTION

Measure the movable driven face I. D.

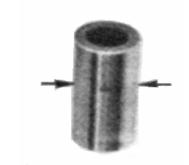
STANDARD: 20.5 mm



BOSS OF DRIVEN FACE INSPECTION

Measure the boss I. D.

SERVICE LIMIT:17.90 mm



CLUTCH OUTER INSPECTION

Measure clutch outer I. D.

STANDARD: 109.5 mm



CLUTCH LINING INSPECTION

Measure the lining thickness.

STANDARD: 1.0 mm



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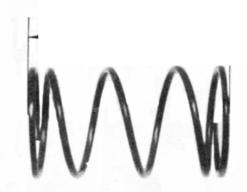
DRVIEN PULLEY DISASSEMBLY

Fix the driven pulley in a compressor. Remove the special nut (28 mm). Release the compressor. Remove the driven plat assy.



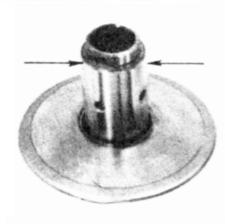
DRIVEN FACE SPRING INSPECTION

Measure the spring free leant. **STANDARD: 89.5** mm



DRIVEN FACE INSPECTION

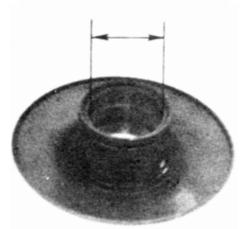
Measure the drive face O. D. **STANDARD** : 33.94 mm



MOVABLE DRIVEN FACE INSPECTION

Measure the movable driven face I. D.

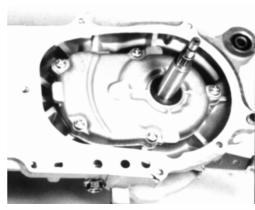
STANDARD: 34.06 mm



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Final transmission gear removal. Drain the gear oil Remove the mission cover.

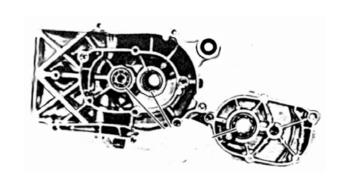
Remove mission cover gasket & dowel pin. Remove final shaft & final gear. Remove counter shaft.





FINAL GEAR TRANSMISSION GEAR INSPECTION

Inspect the gears & shafts for wear or damage.



CRANKSHAFT/CRANKCASE

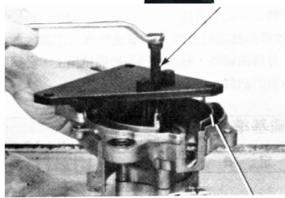
CPI MOTOR GTR50

CRANKCASE REMOVAL

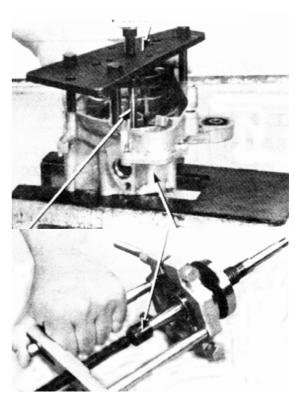
Remove the crankcase setting bolts.



Remove the right crankcase from the left crankcase by using a pulley.



Remove the crankcase from the left crankcase by using a pulley.



Remove the bearing of crankcase by using a bearing pulley.

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CRANKSHAFT/CRANKCASE

CRANKSHAFT INSPECTION

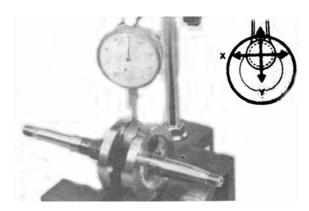
Measure the connecting rod big end side clearance with a feeler gauge.

STANDARD: 0.55 mm



Measure the connecting rod big end radial clearance at two different point across from each other.

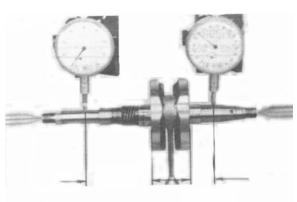
STANDARD:0.05 mm



Place the crankshaft on a stand or V-blocks and measure the run out using a dial gauge.

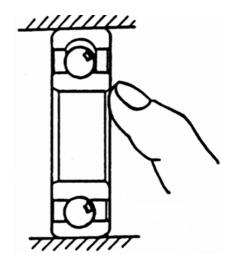
Actual bend is 1/2 of total indicator reading.

STANDARD: 0.1 mm



Check the crankshaft bearing play.

If they are noisy or have recessive play, replace a new one.

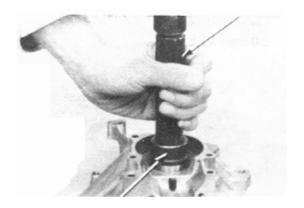


CRANKSHAFT/CRANKCASE

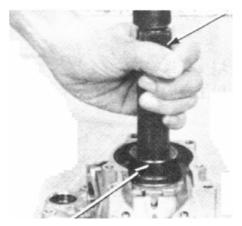
CPI MOTOR GTR50

CRANKCASE INSTALLATION

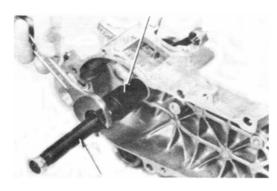
Install the crankshaft bearing into the left crankcase.



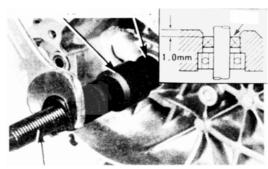
Install the crankshaft bearing into the right crankcase.



Install the crankshaft into the left crankcase.



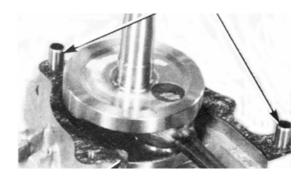
Install the oil seal into the left crankcase.



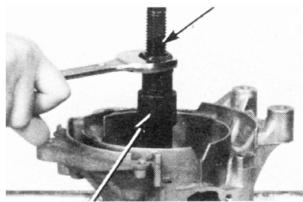
CRANKSHAFT/CRANKCASE

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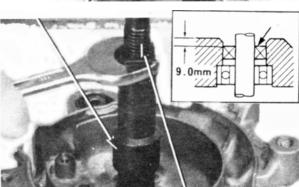
Install the dowel pins.



Install the right crankcase.



Install the oil seal into the right crankcase.



Install the setting bolts of crankcase. **TORQUE: 1.0 kg-m.**



CPI MOTOR GTR50

A.C.GENERATOR

A. C. GENERATOR REMOVAL

Remove the seat & luggage box. Remove the side covers. Remove the cylinder air should.

Remove the fly wheel setting nut by using a "Y" fixer.

Remove the fly wheel by using a pulley.

Disconnect the wires of A. C. G.



CPI MOTOR GTR50

A.C.GENERATOR

Remove the A. C. G. setting bolts. Remove the A. C. G.

A.C. G. INSTALLATION

The installation sequence is essentially the reverse of removal.



ELECTRIC SYSTEM

BATTERY INSPECTION

Check the voltage of the battery.

FULL CHARGE: 13.0~13.2 v

UNDER CHARGE: 12.3 v



BATTERY CHARGING

Connect charge position (+) cable to the battery positive termini.

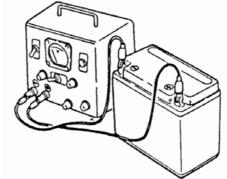
Connect the charge negative (-) cable to the battery negative (-) terminal.

CHARGING CURRENT: STANDARD: 0.4A

SWIFTNESS: 4A

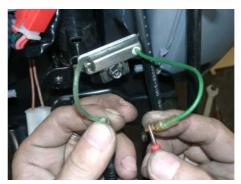
CHARGING TIME: STANDARD:5 hrs

SWIFTNESS: 30 min



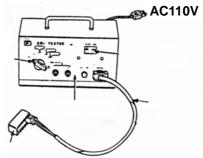
RESISTER INSPECTION

Check the continuity between the wire of resister and earth.



C.D. I. INSPECTION

	GOOD	NG
1. OFF	NO SPARK	_
2. P	↑	_
3. EXT	↑	SPARK
4. ON.1	SPARK	NO SPARK
5. ON.2	↑	↑



CPI MOTOR GTR50

ELECTRIC SYSTEM

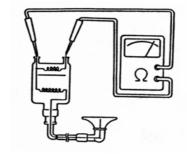
IGNITION COIL INSPECTION

Check the primary coil for continuity.

Mark connections with an ohmmeter as shown.

The coil is normal if there is continuity.

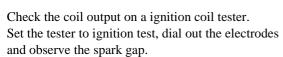
STANDARD: $0.1\sim1.0 \Omega$ (20° C)



Check the secondary coil for continuity. The ignite coil is correct if there is continuity.

STANDSRD:

With plug cap: $7\sim12~k\Omega$ No plug cap: $3\sim5~k\Omega$

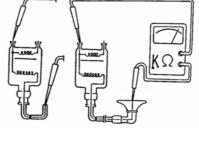


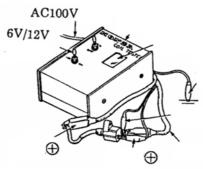
GOOD: Continuous spark.

NG: Discontinuous spark

NOTE:

Follow the instructions supplied with the tester.





ELECTRIC SYSTEM

CPI MOTOR GTR50

IGNITION TIMING INSPECTION

Check the ignition timing by using a timing light after warm up the engine.

STANDARD:

BTDC :17°±1° (1800±100rpm)

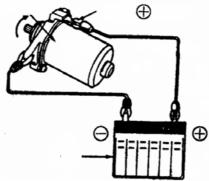


Connect a battery $(12\ V)$ to the motor. Check the performance of the motor.

NOTE:

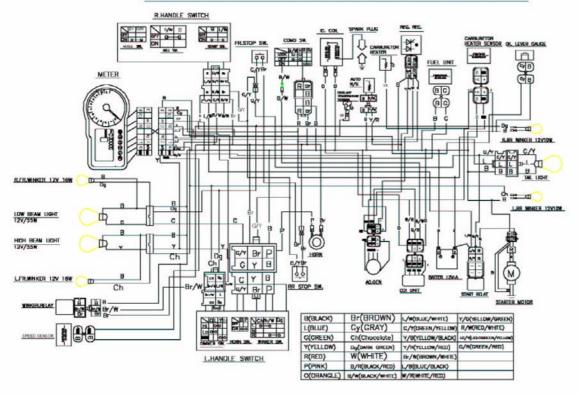
Use a fully charged battery.





刪除:

GTR 50 DOT CIRCUIT DIAGRAM



REGULAR INSPECTION

The chart below lists the recommended intervals for all the returned periodic service work necessarily to keep the motorcycle operating at peak performance and utmost efficiency. Mileages are expressed in terms of kilometers and months.

These intervals judged by odometer reading or month whichever comes first.

Km	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
	Km	Km	Km	Km	Km	Km	Km	Km	Km	Km	Km	Km	Km
Months Item	new scooter period	1 month	2 months	3 months	4 months	5 months	6 months	7 months	8 months	9 months	10 months	11 months	12 months
Battery	I	I	I	I	I	I	I	I	I	I	I	I	I
Tire	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake fluid	I			I			R			I			R
Bolts and nuts	I	I	I	I	I	I	I	I	I	I	I	I	I
Spark plug	I			I			I			I			I
Air cleaner				I			I			I			I
Final gear oil	R					R					R		
Cylinder head nut exhaust pipe bolts	I			I			I			I			I
Steering system	I						I						I
Engine idle rpm	I	I	I	I	I	I	I	I	I	I	I	I	I
Muffler	I						I						I
Oil pump	I			I			I			I			I
Fuel filter	I	·				R					R	·	·

X I=Inspect and clean, adjust, lubricate or replace, if necessary.

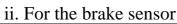
R=Replace

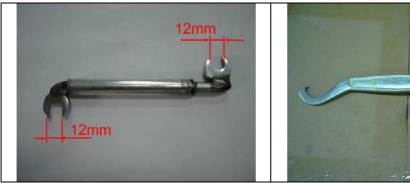
T=Tighten

SPECIAL TOOLS

- 1. FOR FRAME ASSEMBLY
 - i. For the front fork







- 2. FOR ENGINE ASSEMBLY
 - i. For A.C.G.



COOLING SYSTEM DRAWING

