SERVICING INFORMATION

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TROUBLESHOOTING

ENGINE

Complaint	Symptom and possible causes	Remedy
Engine does not start, or is hard to start.	Compression too low 1. Excessively worn cylinder or piston rings. 2. Stiff piston ring in place. 3. Gas leaks from the joint in crankcase, cylinder or cylinder head. 4. Damaged reed valve. 5. Spark plug too loose. 6. Broken, cracked or otherwise failed piston.	Replace. Refair or replace. Refair or replace. Replace. Tighten. Replace.
	Plug not sparking 1. Damaged spark plug or spark plug cap. 2. Dirty or wet spark plug. 3. Defective CDI & Ignition coil unit or stator coil. 4. Open or short in high-tension cord. 5. Defective ignition switch.	Replace. Clean and dry. Replace. Replace. Replace.
	No fuel reaching the carburetor 1. Clogged hole in the fuel tank cap. 2. Clogged or defective fuel cock. 3. Defective carburetor float valve. 4. Clogged fuel hose or defective vacuum hose.	Clean. Clean or replace. Replace. Clean or replace.
Engine stalls easily.	Carbon deposited on the spark plug. Defective CDI & Ignition coil unit. Clogged fuel hose. Clogged jets in carburetor. Clogged exhaust pipe.	Clean. Replace. Clean. Clean. Clean. Clean.
Noisy engine.	Noise appears to come from piston 1. Piston or cylinder worn down. 2. Combustion chamber fouled with carbon. 3. Piston pin, bearing or piston pin bore worn. 4. Piston rings or ring grooves worn. Noise seems to come from crankshaft	Replace. Clean. Replace. Replace.
	1. Worn or brunt crankshaft bearings. 2. Worn or brunt conrod big-end bearings. Noise seems to come from final gear box 1. Gears worn or rubbing. 2. Badly worn splines. 3. Worn or damaged bearings of drive shaft for rear axle shaft.	Replace. Replace. Replace. Replace. Replace. Replace.
Slipping clutch	Worn or damaged clutch shoes. Worn clutch drum.	Replace. Replace.
Engine idles poorly.	1. Excessively worn cylinder or piston rings. 2. Stiff piston ring in place. 3. Gas leaks from crankshaft oil seal. 4. Spark plug gaps too wide. 5. Defective CDI & Ignition coil unit. 6. Defective magneto stator coil. 7. Float-chamber fuel level out of adjustment in carburetor. 8. Clogged jets in carburetor. 9. Broken or damaged reed valve.	Replace. Replace. Replace. Adjust or replace. Replace. Replace. Replace. Clean or adjust. Replace.

Complaint	Symptom and possible causes	Remedy
Engine runs poorly in high- speed range.	1. Excessively worn cylinder or piston rings. 2. Stiff piston ring in place. 3. Spark plug gaps to narrow. 4. Ignition not advanced sufficiently due to poorly working CDI & Ignition coil unit. 5. Defective magneto stator coil. 6. Float-chamber fuel level too low. 7. Clogged air cleaner element. 8. Clogged fuel hose, resulting in inadequate fuel supply to carburetor. 9. Clogged fuel cock vacuum pipe.	Replace. Replace. Adjust. Replace. Replace. Clean Clean, and replace. Clean.
Dirty or heavy exhaust smoke.	Too much engine oil to the engine. Use of incorrect engine oil.	Check oil pump. Change.
Engine lacks power.	1. Excessively worn cylinder or piston rings. 2. Stiff piston ring in place. 3. Gas leaks from crankshaft oil seal. 4. Spark plug gaps incorrect. 5. Clogged jets in carburetor. 6. Float-chamber fuel level out of adjustment. 7. Clogged air cleaner element. 8. Fouled spark plug. 9. Sucking air from intake pipe. 10. Slipping or worn V-belt. 11. Damaged/worn rollers in the movable drive face. 12. Weakened movable driven face spring. 13. Too rich fuel/air mixture due to defective starter system.	Replace. Replace. Replace. Adjust or replace. Clean. Adjust or replace. Clean. Clean or replace. Retighten or replace. Replace. Replace. Replace. Replace. Replace. Replace. Replace.
Engine overheats.	1. Heavy carbon deposit on piston crown. 2. Defective oil pump or clogged oil circuit. 3. Fuel level too low in float chamber. 4. Air leakage from intake pipe. 5. Use of incorrect engine oil. 6. Use of improper spark plug. 7. Clogged exhaust pipe/muffler.	Clean. Replace or clean. Adjust or replace. Retighten or replace. Change. Change. Clean or replace.

CARBURETOR

Complaint	Symptom and possible causes	Remedy
Trouble with starting.	 Starter jet is clogged. Air leaking from a joint between starter body and carburetor. Air leaking from carburetor's joint or vacuum hose joint. Starter plunger is not operating properly. 	Clean. Check starter body and carburetor for tightness, and replace gasket. Check and replace. Check and replace.
Idling or low-speed trouble.	Pilot jet, pilot air jet are clogged or loose. Air leaking from carburetor's joint, vacuum pipe joint, or starter. Pilot outlet is clogged. Starter plunger is not fully closed.	Check and clean. Clean and replace. Check and clean. Check and replace.
Medium or high- speed trouble.	Main jet or main air jet is clogged. Needle jet is clogged. Fuel level is improperly set. Throttle valve is not operating properly. Fuel filter is clogged.	Check and clean. Check and clean. Check and replace. Check throttle valve for operation. Check and clean.
Overflow and fuel level fluctuations.	Needle valve is worn or damaged. Spring in deedle valve is broken. Float is not working properly. Foreign matter has adhered to needle valve. Fuel level is too high or low.	Replace. Replace. Check and adjust. Clean. Adjust or replace.

ELECTRICAL

Complaint	Symptom and possible causes	Remedy
No sparking or poor sparking.	Defective CDI & Ignition coil unit. Defective spark plug. Defective magneto stator coil. Loose connection of lead wire.	Replace. Replace. Replace. Connect/tighten.
Spark plug soon becomes fouled with carbon.	1. Mixture too rich. 2. Idling speed set too high. 3. Incorrect gasoline. 4. Dirty element in air cleaner. 5. Spark plug too cold. 6. Incorrect engine oil.	Adjust carburetor. Adjust carburetor. Change. Clean. Replace by hot type plug. Replace.
Spark plug electrodes overheat or burn.	1. Spark plug too hot. 2. The engine overheats. 3. Spark plug loose. 4. Mixture too lean. 5. Not enough engine oil.	Replace by hot type plug. Turn up. Retighten. Adjust carburetor. Check oil pump.
Magneto does not charge.	Open or short in lead wires, or loose lead connections. Shorted, grounded or open magneto coil. Shorted or open regulator/rectifier.	Repair, replace or retighten. Replace. Replace.
Magneto charge, but charging rate is below the specific- ations.	Lead wires tend to get shorted or open-circuited or loosely connected at terminal. Grounded or open-circuited stator coils of magneto. Defective regulator/rectifier. Defective cell plates in the batttery.	Repair, or retighten. Replace. Replace. Replace the battery.
Magneto overcharges	Internal short-circuit in the battery. Resistor element in the regulator/rectifier damaged or defective. Regulator.rectifier unit poorly grounded.	Replace the battery. Replace. Clean and tighten groun connection.
Unstable charging.	Lead wire insulation frayed due to vibration, resulting in intermittent shorting. Magneto coil internally shorted. Defective regulator/rectifier.	Repair or replace. Replace. Replace.
Starter switch is not effective.	1. Battery run down. 2. Defective switch contacts. 3. Brushes not seating properly on commutator in starter motor. 4. Defective starter relay. 5. Defective starter pinion gears. 6. Defective front or rear brake light switch circuit.	Recharge or replace. Replace. Repair or replace. Replace. Replace. Replace. Replace or repair.

BATTERY

Complaint	Symptom and possible causes	Remedy
Battery runs down quickly.	The charging method is not correct. Cell plates have lost much of their active material as a result of over-charging.	Check the magneto and regulator/rectifier circuit connections, and make necessary adjustments to obtain specified charging operation. Replace the battery, and correct the charging system.
	A short-circuit condition exists within the battery due to excessive accumulation of sediments caused by the incorrect electrolyte. A Peters is too old.	Replace the battery.
	4. Battery is too old.	Replace the battery.
Reversed battery polarity.	The battery has been connected the wrong way round in the system, so that it is being charged in the reverse direction.	Replace the battery and be sure to connect the battery properly.
Battery discharges too rapidly.	Dirty container top and sides. Battery is too old.	Clean. Replace.

CHASSIS

Complaint	Symptom and possible causes	Remedy
Handling feels too heavy or stiff.	1. Disturbed front wheel alignment. 2. Poorly lubricated. 3. Not enough pressure in tires. 4. Tie-rod ends tending to seize. 5. Linkage connections tending to seize.	Adjust. Lubricate. Adjust. Replace. Replace or replace.
Steering oscillation	1. Wheel tires inflated unequally. 2. Wobbly wheels. 3. Loose nut on wheel hub. 4. Damaged or worn wheel hub bearing. 5. Worn or loose tie-rod ends. 6. Defective or incorrect tires. 7. Damaged wishbone arm bushing. 8. Loosen bolts and nuts on chassis.	Adjust tire pressure. Replace. Retighten. Replace. Replace or retighten. Replace. Replace. Retighten.
Steering pulling to one side.	Wheel tires unequally inflated. Disturbed front wheel alignment. Worn or broken wheel hub bearing. Distorted frame. Defective shock absorber.	Adjust tire pressure. Adjust. Replace. Repair or replace. Replace.
Shocks coming to steering	Tire inflating pressure too high. Worn steering linkage connections. Loose bolts on suspension system.	Adjust. Replace. Retighten.
Rapid wear or uneven wear of tires.	Worn or loosen wheel hub bearing. Desturbed front wheel alignement.	Replace. Adjust.
Steering noise.	Loose bolt and nut. Broken or otherwise damaged wheel hub bearing. Poorly lubricated.	Retighten. Replace. Lubricate.
Front suspension too soft.	Weakened spring. Oil leakage of shock absorber.	Replace. Replace.
Front suspension too shift.	Worn wishbone arm related bushing.	Replace.
Noisy suspension.	Loose bolt on suspension system. Worn wishbone arm related bushing.	Retighten. Replace.
Rear wheel oscillation.	1. Worn or loose rear axle housing bearing. 2. Defective or incorrect tire. 3. Distorted wheel rim. 4. Loose nut on wheel hub. 5. Loose nut on axle shaft.	Replace. Replace. Replace. Retighten. Retighten.
Rear suspension too soft.	Weakened spring. Rear shock absorber spring improperly set. Oil leakage of rear shock absorber.	Replace. Reset. Replace.
Rear suspension too stiff.	Rear shock absorber spring improperly set. Shock absorber shaft bent. Swingarm bent. Worn swingarm related bearing.	Adjust. Replace. Replace. Replace.
Poor braking	Lining worn down. Too much play on brake lever and pedal.	Replace. Adjust.

SPECIAL TOOLS

Special tools	Part Number · Part Name · Description
The state of the s	09900-20101
	Vernier Caliper
	Used to conveniently measure various dimensions.
	09900-20201
	Micrometer(0~25mm)
	Used for precise measurement (00~25mm measure ranges).
	09900-20202
	Micrometer(25~50mm)
	Used for precise measurement (25~50mm measure ranges).
	09900-20203
	Micrometer(50~75mm)
	Used for precise measurement (50~75mm measure ranges).
19	09900-20508
	Cylinder gauge set
Charles	Measure inside diameter of cylinder.
	09900-20605
	Dial calipers
	Meassure width of conrod big-end.
	09900-20606
	Dial gauge
	Meassure oscillation of wheel with using magnetic stand.
	09900-20701
	Magnetic stand
	With using dial gauge.
	09900-20806
	Thickness gauge
	Measure clearance of piston ring.

Special tools	Part Number · Part Name · Description
	09900-21109 Torque wrench
	Measure torque of tightening.
	09900-21304 V-block
	With using magnetic stand.
	09900-21602 CCI oil gauge
	A gauge to inspect performance of oil pump.
	09900-22301 Plastigauge
	Measure clearance of crankshaft thrust.
	09900-22401 Small bore gauge
Danis and San	Measure inside diameter of conrod small-end.
	09900-25002 Pocket tester
	Measure voltage, electric current, resistance.
Doop poor	09900-26006 Engine tachometer
	Measure rotational frequency of engine.
	09900-28107 Electro tester
	Inspect ignition coil.
BBS	09900-28500 Battery charger
	Used to charge the dischared battery.

Special tools	Part Number · Part Name · Description
	09910-20115
	Conrod holder
	Used to lock the crankshaft.
	09910-32812
	Crankshaft installer
	Used to install the crankshaft in the crankcase.
	09910-34510
	Piston pin puller
000	Use to remove the piston pin.
	09913-10760
	Fuel level gauge
	Measure height of carburetor.
Ch.	09913-50121
	Oil seal remover
	Used to remove the oil seal.
	09913-70122
	Bearing installer
	Used to drive bearing in.
	09913-75520
	Bearing installer
	Used to drive bearing in.
	09913-75820
	Bearing installer
	Used to drive bearing in.
	09913-75830
	Bearing installer
	Used to install rear axle shaft oil seal.

Special tools	Part Number · Part Name · Description
	09913-76010
	Bearing installer
	Used to drive crankshaft bearing in.
	09913-80112
	Bearing installer
0	Used to drive bearing in.
	09915-63310
	Compression gauge adapter
	Used with compression gauge.
	09915-64510
	Compression gauge
	Measure cylinder compression.
	09920-13120
	Crankcase separater
A. s.	Separate to crankcase.
	09921-20200
	Bearing remover(10mm)
	Used to remove oil seal or bearing.
	09921-20210
	Bearing remover(12mm)
	Used to remove oil seal or bearing.
	09923-73210
	Bearing remover(17mm)
	Used to remove bearing with the rotor remove sliding shaft.
	09923-74510
	Bearing remover(20~35mm)
	Used to remove bearing with the rotor remove sliding shaft.

Special tools	Part Number · Part Name · Description
	09924-84521 Bearing installer
	Used to drive small bearing in.
The state of the s	09930-10121 Spark plug socket wrench set
	Used to remove or remounting spark plug.
PRICE	09930-30102 Rotor remove sliding shaft
	Used to with bearing remover or rotor remover.

Special tools	Part Number · Part Name · Description
	09930-30163 Rotor remover
	Attached to the top of sliding shaft when removing rotor.
	09930-40113 Rotor holder
	Widely used to lock rotary parts such as a clutch shoe.
	09941-50111 Wheel bearing remover
	Used to remove wheel bearing.

TIGHTENING TORQUE

ENGINE

ITEM	N·m	kg · m
Magneto rotor nut	35 ~ 45	3.5 ~ 4.5
Muffler mounting bolt	18 ~ 28	1.8 ~ 2.8
Exhaust pipe bolt	8 ~ 12	0.8 ~ 1.2
Spark plug	25 ~ 30	2.5 ~ 3.0
Cylinder head nut	8 ~ 12	0.8 ~ 1.2
Engine mounting bolt	40 ~ 60	4.0 ~ 6.0
Engine mounting bracket bolt	48 ~ 72	4.8 ~ 7.2
Transmission oil drain plug	9 ~ 15	0.9 ~ 1.5
Transmission oil level bolt	9 ~ 15	0.9 ~ 1.5
Oil pump bolt	3 ~ 5	0.3 ~ 0.5
Clutch shoe nut	40 ~ 60	4.0 ~ 6.0
Clutch housing nut	40 ~ 60	4.0 ~ 6.0
Fixed drive face nut	40 ~ 60	4.0 ~ 6.0

7-9 SERVICING INFORMATION

CHASSIS

ITEM	N·m	kg · m
Front brake cam lever nut	6 ~ 8	0.6 ~ 0.8
Front shock absorber blot & nut	40 ~ 50	4.0 ~ 5.0
Rear sprocket nut	22 ~ 35	2.2 ~ 3.5
Rear shock absorber bolt	40 ~ 50	4.0 ~ 5.0
Rear axle nut (M28)	120 ~ 150	12.0 ~ 15.0
Rear brake lever blot	6~8	0.6 ~ 0.8
Rear brake disc bolt	22 ~ 35	2.2 ~ 3.5
Rear brake caliper mounting bolt	5 ~ 7	0.5 ~ 0.7
Front axle nut (M14)	50 ~ 80	5.0 ~ 8.0
Handlebar holder bolt	18.4 ~ 28.6	1.84 ~ 2.86
Tie-rod lock nut	22.4 ~ 35.7	2.24 ~ 3.57
Steering shaft bolt (M8)	18 ~ 28	1.8 ~ 2.8
Steering shaft lower nut	22.4 ~35.7	2.24 ~3.57

TIGHTENING TORQUE CHART

For other bolts and nuts who's torque is not listed, refer to this chart:

Bolt Diameter	Conventional or "4" marked bolt		"7" mar	ked bolt
(mm)	N · m	kg · m	N · m	kg · m
4	1.0 ~ 2.0	0.1 ~ 0.2	1.5 ~ 3.0	0.15 ~ 0.3
5	2.0 ~ 4.0	0.2 ~ 0.4	3.0 ~ 6.0	0.3 ~ 0.6
6	4.0 ~ 7.0	0.4 ~ 0.7	8.0 ~ 12.0	0.8 ~ 1.2
8	10.0 ~ 16.0	1.0 ~ 1.6	18.0 ~ 28.0	1.8 ~ 2.8
10	22.0 ~ 35.0	2.2 ~ 3.5	40.0 ~ 60.0	4.0 ~ 6.0
12	35.0 ~ 55.0	3.5 ~ 5.5	70.0 ~ 100.0	7.0 ~ 10.0
14	50.0 ~ 80.0	5.0 ~ 8.0	110.0 ~ 160.0	11.0 ~ 16.0
16	80.0 ~ 130.0	8.0 ~ 13.0	170.0 ~ 250.0	17.0 ~ 25.0
18	130.0 ~ 190.0	13.0 ~ 19.0	200.0 ~ 280.0	20.0 ~ 28.0

Unit: mm (in)

SERVICE DATA

CYLINDER + PISTON + PISTON RING

ITEM **STANDARD** LIMIT Cylinder to piston clearance 0.065 ~0.075 (0.0026 ~ 0.0030) 0.120 (0.0047) 41.005 ~ 41.020 (1.6144 ~1.6150) Cylinder bore 41.070 (1.6169) Measure at 20mm from the top surface 40.935 ~ 40.950 (1.6116 ~1.6122) Piston diam. 40.885 (1.6097) Measure at 15mm from the skirt end Cylinder distortion 0.1 (0.004) Cylinder head distortion 0.1 (0.004) Approx. 4.5 (0.177) 3.2 (0.126) 1st Piston ring clearance (Free condition) Approx. 4.3 (0.169) 3.1 (0.122) 2nd $0.10 \sim 0.25 (0.004 \sim 0.010)$ 0.75 (0.030) 1st Piston ring clearance (Assembling condition) $0.10 \sim 0.25 (0.004 \sim 0.010)$ 0.75 (0.030) 2nd 1st $0.02 \sim 0.06 (0.0008 \sim 0.0024)$ Piston ring - ring groove clearance 2nd $0.02 \sim 0.06 (0.0008 \sim 0.0024)$

 $10.002 \sim 10.010 \ (0.3938 \sim 0.3941)$

 $9.995 \sim 10.000 \ (0.3935 \sim 0.3937)$

CONROD + CRANKSHAFT

Piston pin bore I.D

Piston pin O.D

Unit: mm (in)

10.030 (0.3949)

9.980 (0.3929)

ITEM	STANDARD	LIMIT
Conrod small end bore I.D.	14.003 ~ 14.011 (0.5513 ~0.5516)	14.047 (0.5530)
Conrod big end runout		3.0 (0.12)
Crank web to wed width	35 ± 0.1 (1.378 ± 0.004)	
Crankshaft runout		0.08 (0.003)

OIL PUMP

ITEM	STANDARD
Oil pump reduction ratio	30 : 1

CLUTCH Unit: mm (in)

ITEM	STANDARD	LIMIT
Clutch housing I.D.	110.00 ~ 110.15 (4.3307 ~ 4.3366)	110.35 (4.3444)
Clutch shoe thickness	3.0 (0.118)	2.0 (0.079)
Clutch in rpm	3,600 \pm 200 rpm	
Clutch tight rpm	4,500 \pm 200 rpm	

TRANSMISSION+DRIVE CHAIN

Unit: mm (in) Except ratio ITEM **STANDARD** LIMIT Final reduction ratio 1.33 2.818 ~ 0.870 Gear ratio $\begin{array}{c} \textbf{16.5} \pm \textbf{0.6} \\ \textbf{(0.6496} \pm \textbf{0.024)} \end{array}$ 15.3 Drive V-belt width (0.6023) $\begin{array}{c} 8.0 \pm 0.6 \\ \text{(0.3149} \pm 0.024) \end{array}$ Drive V-belt thickness 110.0 Movable drive face spring free length (4.331)Type SLC 428H Links 50 Drive chain 20 - pitch length 259 (10.197) 5 ~ 15 (0.197 ~0.591) over 15 (over 0.591) Drive chain slack

CARBURETOR Unit: mm (in)

ITEM		SPECIFICATION
Carburetor type		PISTON VALVE
Bore size		ф 14
I.D. No.		HK31
Idle rpm		1,800 \pm 50 rpm
Fuel level		16
Main jet	(M.J.)	#75
Main air jet	(M.A.J.)	ф 2.0
Jet needle	(J.N.)	J68A - 2
Needle jet	(J.N.)	ф 2.1
Pilot air jet	(P.A.J.)	ф 3.0
Pilot jet	(P.J.)	# 35
Throttle valve	(T.V.)	#3.5
By-pass	(B.P.)	ф 0.8
Valve seat	(V.S.)	ф 1.4
Starter jet	(G.S.)	# 45
Pilot screw	(P.S.)	ф 2.0
Pilot outlet	(P.O.)	ф 0.8
Throttle cable play		0.5 ~ 1.0 (0.020 ~0.039)

ELECTRICAL Unit: mm (in)

	ITEM	SF	PECIFICATION	NOTE
Ignition timin	g	B.T.D.		
		Туре	BPR6HS	
Spark plug		Gap	0.6 ~ 0.7 (0.024 ~ 0.028)	
		Hot type	BPR5HS	
		Standard type	BPR6HS	
		Cold type	BPR7HS	
Spark perfor	mance	Ove	er 8 (0.3) at 1 atm	
Ignition coil resistance		Primary	0.19~0.24 Ω	
		Secondary	5.4 ~ 6.6 kΩ	
Magneto coil resistance		Charging	0.69~1.03 Ω	
		Exciting	220 ~ 260 Ω	B/R-Ground
Regulated vo	oltage	14.0~	15.0 V at 5,000 rpm	
Starter motor	r carbon brush length			4.0 (0.158)
Starter motor	r commutator under-cut			0.2 (0.008)
Starter relay	resistance		0∼70 Ω	
	Type designation	STX5L-BS (MF)		
Battery Capacity	1	12V 4Ah/10HR		
Standard electrolyte S.G.		1.32 at 20°C (68°F)		
Fuse size		10A		
No-load perfe	ormance of A.C. generator	More than 17.0V (at 5,000 rpm)		

BRAKE + WHEEL Unit: mm (in)

ITEM		STANDARD	
Duelto les conseles c	Front	5~15 (0.197~0.591)	
Brake lever play	Rear	5~15 (0.197~0.591)	
Brake drum I.D.	Front	110.0 (4.330)	110.7 (4.358)
Brake shoe lining O.D.	Front	109.2 (4.299)	106.0 (4.173)
Brake shoe thickness	Front		2 (0.079)
Brake disc thickness	Rear	3.0 (0.118)	2.5 (0.098)
Brake disc runout	Rear		0.3 (0.012)
Turning radius		2,450 (96.457)	
Camber		1°	
Toe-in		6.0 (0.236)	
Trail		8.5 (0.335)	
Caster		3°	
Wheel rim runout	Axial		0.5 (0.020)
vinodiminumodi	Radial		0.9 (0.035)
Wheel axle shaft runout	Rear		8.0 (0.315)
Tire size	Front	145/70-6 × 2	
1116 2176	Rear	145 / 70 - 6 × 2	
Tire tread depth	Front		4 (0.16)
riio acaa acpar	Rear		4 (0.16)

SUSPENSION Unit: mm (in)

ITEM	SPECIFICATION	LIMIT
Front wheal travel	55 (2.165)	
Rear wheel travel	60 (2.362)	

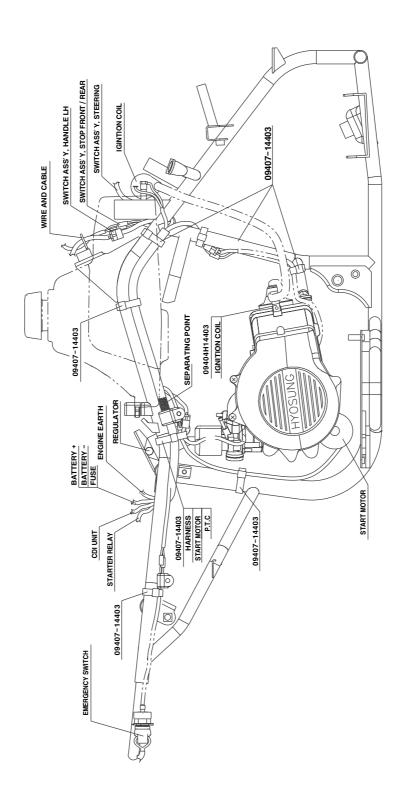
TIRE PRESSURE

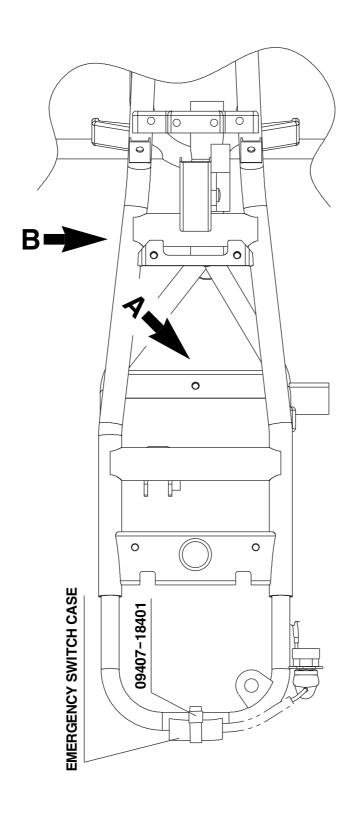
COLD INFLATION TIRE PRESSURE	kPa	kgf/cm²	psi
FRONT	25	0.25	3.6
REAR	25	0.25	3.6

FUEL + OIL

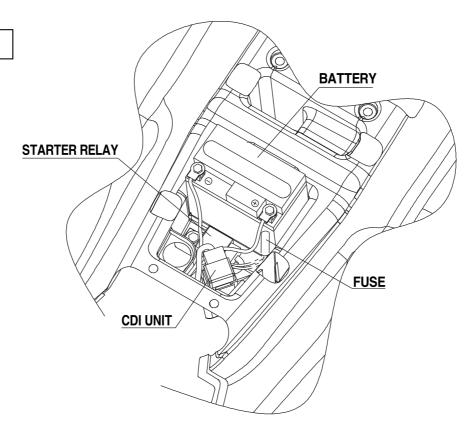
ITEM	SPECIFICATION		NOTE
Fuel type	Gasoline used should be graded 85 ~ 95 octane or higher. An unleaded gasoline is recommended.		
Fuel tank capacity	4.0 ℓ		
Engine oil type	Use HYOSUNG HYPOL HS OIL or an equivalent good quality synthetic based 2-stroke engine oil.		
Engine oil tank capacity	1.0 ℓ		
Engine oil discharge amount	$0.9 \sim 1.1 \text{m}\ell$ (at 3,000rpm for 5 minutes)		
Transmission oil type	SAE 10W/40 multi - grade motor oil		
Transmission oil capacity	Change	80 mℓ	
	Overhaul	90 mℓ	

WIRE AND CABLE ROUTING



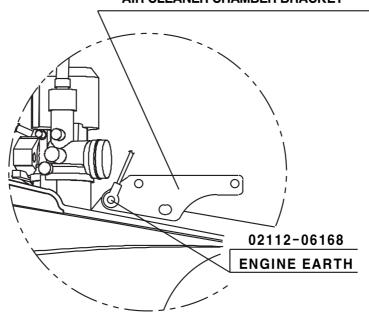


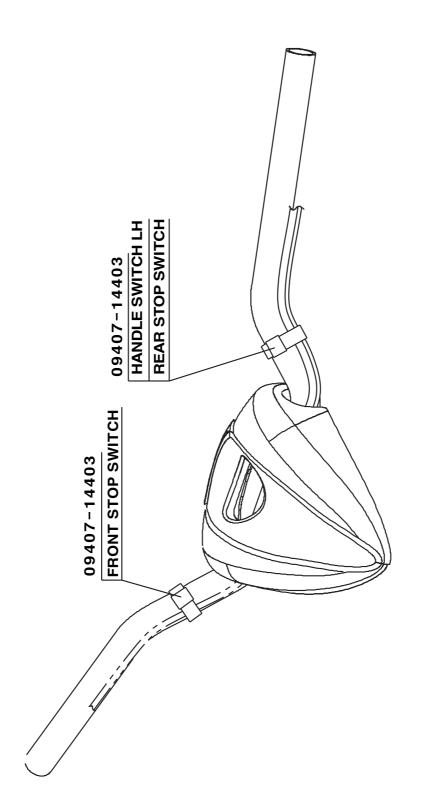




VIEW B

AIR CLEANER CHAMBER BRACKET





HANDLE SWITCH LH / STOP SWITCH

WIRING DIAGRAM SWITCH ASS'Y EMERGENCY BW BR BR -ENGINE EARTH BATTERY \oplus YG: Yellow with Green tracer START RELAY 10A - R - - R - -FUSE REGULATOR : White with Black tracer : White with Red tracer : Yellow with Black tracer BW 8 C.D.I : Red with Black tracer : Red with White tracer 2 Black with Green tracer Black with White tracer Black with Red tracer Black with Red tracer Blue with White tracer ENGINE STOP HANDLE SWITCH LH BW BR R IGNITION S/W × BBG × 8 88 STARTER ğ : Light green : Orange : Red : Light blue : White S/W ASS' Y, BRAKE RH S/W ASS' Y, BRAKE LH IGNITION COIL SPARK PLUG 종병 20 x g≥ WIRE COLOR 8 #s B : Black Br : Brown G : Green Gr : Gray L : Blue



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