SERVICING INFORMATION

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TROUBLESHOOTING FI SYSTEM MALFUNCTION CODE AND DEFECTIVE CONDITION

MALFUNCTION	DETECTED ITEM	DETECTED FAILURE CONDITION	
CODE	DETECTED ITEM	CHECK FOR	
C00	NO FAULT		
C11	Camshaft position sensor	The signal does not reach ECM for more than 3 sec. after receiving the starter signal. The camshaft position sensor wiring and mechanical parts. (Camshaft position sensor, intake cam pin, wiring/coupler connection)	
C12	Crankshaft position sensor	The signal does not reach ECM for more than 3 sec. after receiving the starter signal. The crankshaft position sensor wiring and mechanical parts. (Crankshaft position sensor, wiring/coupler connection)	
C13	Intake air pressure sensor	The sensor should produce following voltage. (0.10 V ≤ sensor voltage < 4.80 V) Without the above range, C13 is indicated. Intake air pressure sensor, wiring/coupler connection.	
C14	Throttle position sensor	The sensor should produce following voltage. (0.10 V ≤ sensor voltage < 4.80 V) Without the above range, C14 is indicated. Throttle position sensor, wiring/coupler connection.	
C15	Engine coolant tem- perature sensor	The sensor voltage should be the following. (0.10 V ≤ sensor voltage < 4.60 V) Without the above range, C15 is indicated. Engine coolant temperature sensor, wiring/coupler connection.	
C21	Intake air temperature sensor	The sensor voltage should be the following. (0.10 V ≤ sensor voltage < 4.60 V) Without the above range, C21 is indicated. Intake air temperature sensor, wiring/coupler connection.	
C22	Atmospheric pressure sensor	The sensor voltage should be the following. (0.10 V ≤ sensor voltage < 4.80 V) Without the above range, C22 is indicated. Atm. pressure sensor, wiring/coupler connection.	
C23	Tip over sensor	The sensor voltage should be less than the following for more than 4 sec. after ignition switch turns ON. (0.20 V ≤ sensor voltage < 4.60 V) Without the above value, C23 is indicated. Tip over sensor, wiring/coupler connection.	
C24 or C25	Ignition signal	Crankshaft position sensor (pick-up coil) signal is produced but signal from ignition coil is interrupted continuous by two times or more. In this case, the code C24 or C25 is indicated. Ignition coil, wiring/coupler connection, power supply from the battery.	

	Secondary throttle	When no actuator control signal is supplied from the ECM or	
	valve actuator	communication signal does not reach ECM or operation voltage	
C28		does not reach STVA motor, C28 is indicated. STVA can not	
020		operate.	
		STVA lead wire/coupler.	
	Secondary throttle posi-	The sensor should produce following voltage.	
	tion sensor	(0.10 V ≤ sensor voltage < 4.80 V)	
C29		Without the above range, C29 is indicated.	
		Secondary throttle position sensor, wiring/coupler connection.	
	Gear position signal	Gear position signal voltage should be higher than the following	
	dear position signal	for more than 4 seconds.	
		(Gear position switch voltage > 1.0 V)	
C31		Without the above value, C31 is indicated.	
		Gear position sensor, wiring/coupler connection. Gearshift cam	
		etc.	
	Fuel injector signal	When fuel injection signal stops, the C32 or C33 is indicated.	
C32 or C33	, ,	Injector, wiring/coupler connection, power supply to the injector.	
	Fuel pump relay signal	When no signal is supplied from fuel pump relay, C41 is indi-	
044		cated.	
C41		Fuel pump relay, connecting lead, power source to fuel pump	
		relay.	
C42	Ignition switch signal	Ignition switch signal is not input in the ECM.	
U42		Ignition switch, lead wire/coupler.	
	Heated oxygen sensor	The sensor voltage should be less than the following after	
	(HO₂S)	warming up condition.	
		(Sensor voltage < 0.4 V)	
C44		Without the above value, C44 is indicated.	
(Except for USA)		Heater operation voltage does not reach in the oxygen heater	
(=,000pt 101 00A)		circuit, C44 in indicated.	
		The Heater can not operate.	
		HO₂S lead wire/coupler connection.	
		Battery voltage supply to the HO₂S.	

ENGINE

Complaint	Symptom and possible causes	Remedy
Engine will not start	Compression too low	
or is hard to start.	Tappet clearance out of adjustment.	Adjust.
	2. Worn valve guides or poor seating of valves.	Repair or replace.
	3. Mistimed valves.	Adjust.
	4. Excessively worn piston rings.	Replace.
	5. Worn-down cylinder bores.	Replace.
	6. Starter motor cranks too slowly.	See electrical section.
	7. Poor seating of spark plugs.	Retighten.
	Plugs not sparking	
	Fouled spark plugs.	Clean.
	2. Wet spark plugs.	Clean and dry.
	3. Defective ignition coil or camshaft position sensor.	Replace.
	Open or short in high-tension cords.	Replace.
	5. Defective crankshaft position sensor.	Replace.
	6. Defective ECM.	Replace.
	7. Open-circuited wiring connections.	Repair or replace.
	No fuel reaching the intake manifold	
	Clogged fuel filter or fuel hose.	Clean or replace.
	Defective fuel pump.	Replace.
	Defective fuel pressure regulator.	Replace.
	Defective fuel injector.	Replace.
	5. Defective fuel pump relay.	Replace.
	6. Defective ECM.	Replace.
	7. Open-circuited wiring connections.	Check and repair.
	Incorrect fuel/air mixture	Ì
	Throttle position sensor out of adjustment.	Adjust.
	2. Defective fuel pump.	Replace.
	Defective fuel pressure regulator.	Replace.
	Defective throttle position sensor.	Replace.
	5. Defective crankshaft position sensor.	Replace.
	6. Defective intake air pressure sensor.	Replace.
	7. Defective atmospheric pressure sensor.	Replace.
	8. Defective ECM.	Replace.
	9. Defective engine coolant temp. sensor.	Replace.
	10. Defective intake air temp. sensor.	Replace.
Engine idles poorly.	Tappet clearance out of adjustment.	Adjust.
	2. Poor seating of valves.	Replace or repair.
	3. Defective valve guides.	Replace.
	4. Worn down camshaft.	Replace.
	5. Too wide spark plug gaps.	Adjust or replace.
	6. Defective ignition coil.	Replace.
	7. Defective crankshaft position sensor.	Replace.
	8. Defective ECM.	Replace.
	Defective throttle position sensor.	Replace.
	10. Defective fuel pump.	Replace.
	11. Imbalanced throttle valve.	Adjust.
	12. Damaged or cracked vacuum hose.	Replace.

Complaint	Symptom and possible causes	Remedy
Engine stalls often	Incorrect fuel/air mixture	
	Defective intake air pressure sensor or circuit.	Repair or replace.
	2. Clogged fuel filter.	Clean or replace.
	3. Defective fuel pump.	Replace.
	Defective fuel pressure regulator.	Replace.
	5. Damaged or cracked vacuum hose.	Replace.
	6. Defective engine coolant temp. sensor.	Replace.
	7. Defective thermostat.	Replace.
	8. Defective intake air temp. sensor.	Replace.
	Fuel injector improperly operating	
	Defective fuel injector.	Replace.
	2. No injection signal from ECM.	Repair or replace.
	3. Open or short circuited wiring connection.	Repair or replace.
	4. Defective battery or low battery voltage.	Replace or recharge.
	Control circuit or sensor improperly operating	
	1. Defective ECM.	Replace.
	Defective fuel pressure regulator.	Replace.
	Defective throttle position sensor.	Replace.
	4. Defective intake air temp. sensor.	Replace.
	5. Defective camshaft position sensor.	Replace.
	6. Defective crankshaft position sensor.	Replace.
	7. Defective engine coolant temp. sensor.	Replace.
	Defective fuel pump relay.	Replace.
	Engine internal parts improperly operating	
	Fouled spark plugs.	Clean.
	2. Defective crankshaft position sensor or ECM.	Replace.
	3. Clogged fuel hose.	Clean.
	4. Tappet clearance out of adjustment.	Adjust.

Complaint	Symptom and possible causes	Remedy
Noisy engine.	Excessive valve chatter	
	Too large tappet clearance.	Adjust.
	Weakened or broken valve springs.	Replace.
	3. Worn tappet or cam surface.	Replace.
	4. Worn and burnt camshaft journal.	Replace.
	Noise seems to come from piston	
	Worn down pistons or cylinders.	Replace.
	Combustion chambers fouled with carbon.	Clean.
	Worn piston pins or piston pin bore.	Replace.
	4. Worn piston rings or ring grooves.	Replace.
	Noise seems to come from timing chain	
	Stretched chain.	Replace.
	2. Worn sprockets.	Replace.
	Tension adjuster not working.	
	_	Repair or replace.
	Noise seems to come from clutch	
	Worn splines of countershaft or hub. Worn to ath of plates a plate.	Replace.
	Worn teeth of clutch plates. Distorted slutch plates.	Replace.
	3. Distorted clutch plates, driven and drive.	Replace.
•	4. Worn clutch release bearing.	Replace.
	5. Weakened clutch dampers.	Replace the primary driven
		gear.
	Noise seems to come from crankshaft	
	Rattling bearings due to wear.	Replace.
	2. Worn and burnt big-end bearings.	Replace.
	3. Worn and burnt journal bearings.	Replace.
	4. Too large thrust clearance.	Replace thrust bearing.
	Noise seems to come from transmission	
	1. Worn or rubbing gears.	Replace.
	2. Worn splines.	Replace.
	3. Worn or rubbing primary gears.	Replace.
	4. Worn bearings.	Replace.
	Noise seems to come from water pump	·
	Too much play on pump shaft bearing.	Replace.
	2. Worn or damaged impeller shaft.	Replace.
	3. Worn or damaged mechanical seal.	Replace.
	4. Contact between pump case and impeller.	Replace.
Engine runs poorly in	Defective engine internal/electrical parts	
high speed range.	Weakened valve springs.	Replace.
	2. Worn camshafts.	Replace.
	Valve timing out of adjustment.	Adjust.
	4. Too narrow spark plug gaps.	Adjust.
	5. Ignition not advanced sufficiently due to poorly working timing advance circuit.	Replace ECM.
	6. Defective ignition coil.	Panlaca
	7. Defective crankshaft position sensor.	Replace. Replace.
	8. Defective ECM.	Replace.
	Clogged air cleaner element.	Clean.
	10. Clogged fuel hose, resulting in inadequate fuel supply to injector.	Clean and prime.
	11. Defective fuel pump.	Replace.
	12. Defective throttle position sensor.	Replace.
	13. Defective secondary throttle position sensor or its actu-	Replace.
	ator.	

Complaint	Symptom and possible causes	Remedy
Engine runs poorly in	Defective air flow system	
high speed range.	Clogged air cleaner element.	Clean or replace.
	Defective throttle valve.	Adjust or replace.
	Defective secondary throttle valve.	Adjust or replace.
	4. Sucking air from throttle body joint.	Repair or replace.
	5. Defective ECM.	Replace.
	6. Imbalanced throttle valve synchronization.	Adjust.
	Defective control circuit or sensor	
	1. Low fuel pressure.	Repair or replace.
	Defective throttle position sensor.	Replace.
	3. Defective intake air temp. sensor.	Replace.
	Defective camshaft position sensor.	Replace.
	5. Defective crankshaft position sensor.	Replace.
	6. Defective gear position switch.	Replace.
	7. Defective intake air pressure sensor.	Replace.
	8. Defective atmospheric pressure sensor.	Replace.
	9. Defective ECM.	Replace.
	10. Throttle position sensor out of adjustment.	Adjust.
	11. Defective secondary throttle position sensor and/or	Replace.
	secondary throttle valve actuator.	
Engine lacks power.	Defective engine internal/electrical parts	
	Loss of tappet clearance.	Adjust.
	2. Weakened valve springs.	Replace.
	Valve timing out of adjustment.	Adjust.
	Worn piston rings or cylinders.	Replace.
	5. Poor seating of valves.	Repair.
	6. Fouled spark plug.	Clean or replace.
	7. Incorrect spark plug.	Adjust or replace.
	8. Clogged injector.	Clean.
	Throttle position sensor out of adjustment.	Adjust.
	10. Clogged air cleaner element.	Clean.
	11. Imbalanced throttle valve synchronization.	Adjust.
	12. Sucking air from throttle valve or vacuum hose.	Retighten or replace.
	13. Too much engine oil.	Drain out excess oil.
	14. Defective fuel pump or ECM.	Replace.
	15. Defective crankshaft position sensor and ignition coil.	Replace.
	Defective control circuit or sensor	
	Low fuel pressure.	Repair or replace.
	Defective throttle position sensor.	Replace.
	3. Defective intake air temp. sensor.	Replace.
	Defective camshaft position sensor.	Replace.
	5. Defective crankshaft position sensor.	Replace.
	6. Defective gear position switch.	Replace.
	7. Defective intake air pressure sensor.	Replace.
	8. Defective atmospheric pressure sensor.	Replace.
	9. Defective ECM.	Replace.
	10. Imbalanced throttle valve synchronization.	Adjust.
	11. Throttle position sensor out of adjustment.	Adjust.
	12. Defective secondary throttle position sensor and/or	Replace.
	secondary throttle valve actuator.	

Complaint	Symptom and possible causes	Remedy
Engine overheats.	Defective engine internal parts	
-	Heavy carbon deposit on piston crowns.	Clean.
	2. Not enough oil in the engine.	Add oil.
	3. Defective oil pump or clogged oil circuit.	Replace or clean.
	4. Sucking air from intake pipes.	Retighten or replace.
	5. Use of incorrect engine oil.	Change.
	6. Defective cooling system.	See radiator section.
	Lean fuel/air mixture	
	Short-circuited intake air pressure sensor/lead wire.	Repair or replace.
	2. Short-circuited intake air temp. sensor/lead wire.	Repair or replace.
	3. Sucking air from intake pipe joint.	Repair or replace.
	4. Defective fuel injector.	Replace.
	5. Defective engine coolant temp. sensor.	Replace.
	The other factors	,
	Ignition timing too advanced due to defective timing	Replace.
	advance system (engine coolant temp. sensor, gear	
	position switch, crankshaft position sensor and ECM.)	
	2. Drive chain too tight.	Adjust
District or hearn		Adjust.
Dirty or heavy	Too much engine oil in the engine.	Check with inspection window.
exhaust smoke.		Drain excess oil.
	Worn piston rings or cylinders.	Replace.
	3. Worn valve guides.	Replace.
:	4. Scored or scuffed cylinder walls.	Replace.
	5. Worn valves stems.	Replace.
	6. Defective stem seal.	Replace.
	7. Worn oil ring side rails.	Replace.
Slipping clutch.	Weakened clutch springs.	Replace.
	Worn or distorted pressure plate.	Replace.
	Distorted clutch plates or clutch plate.	Replace.
Dragging clutch.	Some clutch spring weakened while others are not.	Replace.
	Distorted pressure plate or clutch plate.	Replace.
Transmission will not	Broken gearshift cam.	Replace.
shift.	2. Distorted gearshift forks.	Replace.
	Worn gearshift pawl.	Replace.
Transmission will not	Broken return spring on shift shaft.	Replace.
shift back.	2. Rubbing or sticky shift shaft.	Repair or replace.
	3. Distorted or worn gearshift forks.	Replace.
Transmission jumps	Worn shifting gears on driveshaft or countershaft.	Replace.
out of gear.	2. Distorted or worn gearshift forks.	Replace.
	3. Weakened stopper spring on gearshift stopper.	Replace.

RADIATOR (COOLING SYSTEM)

Complaint	Symptom and possible causes	Remedy
Engine overheats.	Not enough engine coolant.	Add engine coolant.
	2. Radiator core clogged with dirt or scale.	Clean.
	3. Faulty cooling fan.	Repair or replace.
	4. Defective cooling fan thermo-switch.	Replace.
	5. Clogged water passage.	Clean.
	6. Air trapped in the cooling circuit.	Bleed air.
	7. Defective water pump.	Replace.
	8. Use of incorrect engine coolant.	Replace.
	9. Defective thermostat.	Replace.
Engine overcools.	Defective cooling fan thermo-switch.	Replace.
	2. Extremely cold weather.	Put on radiator cover.
	3. Defective thermostat.	Replace.

CHASSIS

Complaint	Symptom and possible causes	Remedy
Heavy steering.	Overtightened steering stem nut.	Adjust.
	2. Broken bearing in steering stem.	Replace.
i	Distorted steering stem.	Replace.
	Not enough pressure in tires.	Adjust.
Wobbly handlebars.	Loss of balance between right and left front forks.	Replace.
	2. Distorted front fork.	Repair or replace.
	3. Distorted front axle or crooked tire.	Replace.
	Loose steering stem nut.	Adjust.
	5. Worn or incorrect tire or wrong tire pressure.	Adjust or replace.
	Worn bearing/race in steering stem.	Replace.
Wobbly front wheel.	Distorted wheel rim.	Replace.
	2. Worn front wheel bearings.	Replace.
	3. Defective or incorrect tire.	Replace.
	4. Loose axle or axle pinch bolt.	Retighten.
	Incorrect front fork oil level.	Adjust.
Front suspension too	Weakened springs.	Replace.
soft.	2. Not enough fork oil.	Replenish.
	3. Wrong viscous fork oil.	Replace.
;	4. Improperly set front fork spring adjuster.	Adjust.
	Improperly set front fork damping force adjuster.	Adjust.
Front suspension too	Too viscous fork oil.	Replace.
stiff.	2. Too much fork oil.	Drain excess oil.
	3. Improperly set front fork spring adjuster.	Adjust.
	4. Improperly set front fork damping force adjuster.	Adjust.
	5. Bent front axle.	Replace.
Noisy front suspen-	Not enough fork oil.	Replenish.
sion.	2. Loose bolts on suspension.	Retighten.
Wobbly rear wheel.	Distorted wheel rim.	Replace.
	2. Worn rear wheel bearing or swingarm bearings.	Replace.
	3. Defective or incorrect tire.	Replace.
	4. Worn swingarm and rear suspensions.	Replace.
	5. Loose nuts or bolts on rear suspensions.	Retighten.
Rear suspension too	Weakened spring of shock absorber.	Replace.
soft.	2. Leakage of oil from shock absorber.	Replace.
	3. Improperly set rear spring unit adjuster.	Adjust.
	4. Improperly set damping force adjuster.	Adjust.
Rear suspension too	Bent shock absorber shaft.	Replace.
stiff.	Bent swingarm pivot shaft.	Replace.
	Worn swingarm and suspension bearings.	Replace.
	4. Improperly set rear suspension adjuster.	Adjust.
	5. Improperly set damping force adjuster.	Adjust.
Noisy rear suspen-	Loose nuts or bolts on rear suspension.	Retighten.
	The state of the competition,	prodynich.

BRAKES

Complaint	Symptom and possible causes	Remedy
Insufficient brake	Leakage of brake fluid from hydraulic system.	Repair or replace.
power.	2. Worn pads.	Replace.
	3. Oil adhesion on friction surface of pads/shoe.	Clean disc and pads.
	4. Worn disc.	Replace.
	5. Air in hydraulic system.	Bleed air.
	Not enough brake fluid in the reservoir.	Replenish.
Brake squeaking.	Carbon adhesion on pad surface.	Repair surface with sandpaper.
	2. Tilted pad.	Correct pad fitting or replace.
	3. Damaged wheel bearing.	Replace.
	4. Loose front-wheel axle or rear-wheel axle.	Tighten to specified torque.
	5. Worn pads or disc.	Replace.
	6. Foreign material in brake fluid.	Replace brake fluid.
	7. Clogged return port of master cylinder.	Disassemble and clean master
		cylinder.
Excessive brake lever	Air in hydraulic system.	Bleed air.
stroke.	2. Insufficient brake fluid.	Replenish fluid to specified
		level; bleed air.
	3. Improper quality of brake fluid.	Replace with correct fluid.
Leakage of brake	Insufficient tightening of connection joints.	Tighten to specified torque.
fluid.	2. Cracked hose.	Replace.
	3. Worn piston and/or cup.	Replace piston and/or cup.
Brake drags.	1. Rusty part.	Clean and lubricate.
	2. Insufficient brake lever or brake pedal pivot lubrication.	Lubricate.

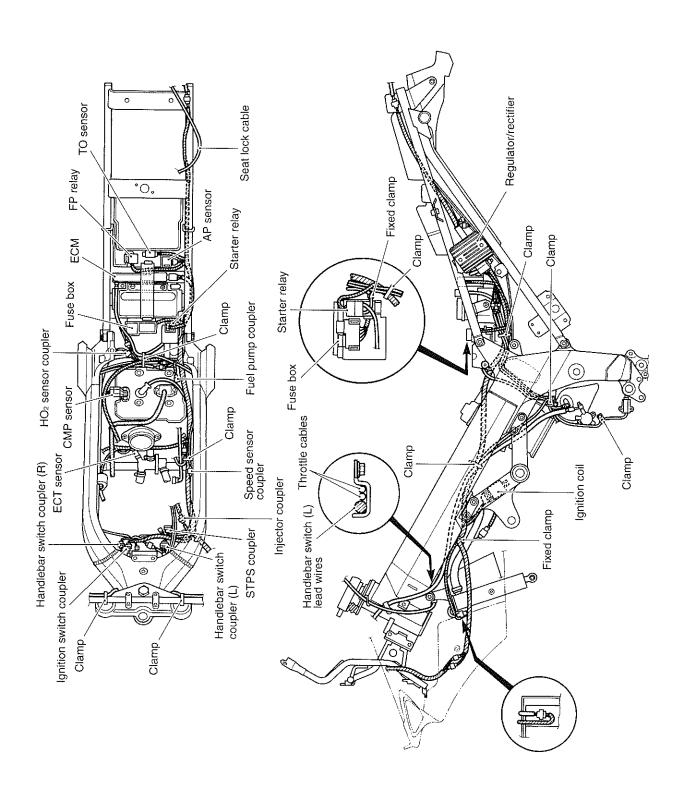
ELECTRICAL

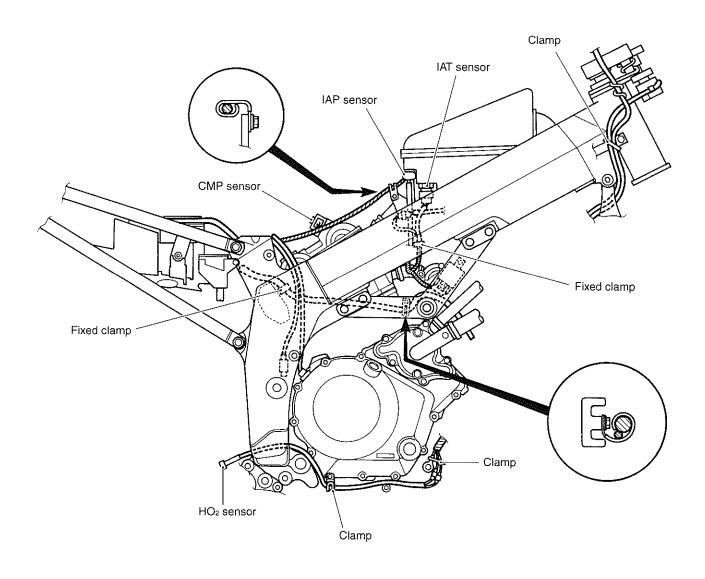
Complaint	Symptom and possible causes	Remedy
No sparking or poor	Defective ignition coil or camshaft position sensor.	Replace.
sparking.	Defective spark plugs.	Replace.
	3. Defective crankshaft position sensor.	Replace.
	4. Defective ECM.	Replace.
	5. Defective tip over sensor.	Replace.
	Open-circuited wiring connections.	Check and repair.
Spark plugs soon	1. Mixture too rich.	Consult FI system.
become fouled with	2. Idling speed set too high.	Adjust fast idle or throttle stop
carbon.		screw.
	3. Incorrect gasoline.	Change.
	4. Dirty air cleaner element.	Clean or replace.
	5. Too cold spark plugs.	Replace with hot type plugs.
Spark plugs become	Worn piston rings.	Replace.
fouled too soon.	Worn piston or cylinders.	Replace.
	3. Excessive clearance of valve stems in valve guides.	Replace.
	4. Worn stem oil seal.	Replace.
Spark plug electrodes	Too hot spark plugs.	Replace with cold type plugs.
overheat or burn.	Overheated the engine.	Tune up.
	3. Loose spark plugs.	Retighten.
	4. Too lean mixture.	Consult FI system.
Generator does not	1. Open- or short-circuited lead wires, or loose lead con-	Repair or replace or retighten.
charge.	nections.	
	Short-circuited, grounded or open generator coils.	Replace.
	Short-circuited or panctured regulator/rectifiers.	Replace.
Generator does	1. Lead wires tend to get short- or open-circuited or	Repair or retighten.
charge, but charging	loosely connected at terminals.	
rate is below the	2. Grounded or open-circuited stator coils or generator.	Replace.
specification.	Defective regulator/rectifier.	Replace.
	Defective cell plates in the battery.	Replace the battery.
Generator over-	Internal short-circuit in the battery.	Replace the battery.
charges.	2. Damaged or defective resistor element in the regulator/	Replace.
	rectifier.	
	Poorly grounded regulator/rectifier.	Clean and tighten ground con-
		nection.
Unstable charging.	1. Lead wire insulation frayed due to vibration, resulting in	Repair or replace.
	intermittent short-circuiting.	
	Internally short-circuited generator.	Replace.
<u>.</u>	Defective regulator/rectifier.	Replace.
Starter button is not	Run down battery.	Repair or replace.
effective.	2. Defective switch contacts.	Replace.
	3. Brushes not seating properly on starter motor commu-	Repair or replace.
	tator.	
	4. Defective starter relay/starter interlock switch.	Replace.
	5. Defective main fuse.	Replace.

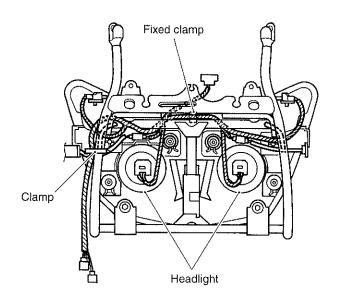
BATTERY

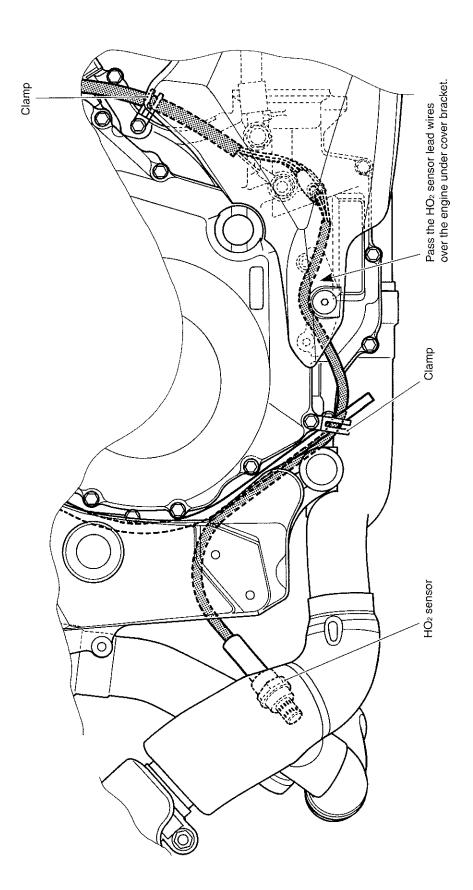
Complaint	Symptom and possible causes	Remedy
"Sulfation", acidic	Cracked battery case.	Replace the battery.
white powdery sub-	2. Battery has been left in a run-down condition for a long	Replace the battery.
stance or spots on	time.	
surfaces of cell		
plates.		
Battery runs down quickly.	Trouble in charging system.	Check the generator, regulator/ rectifier and circuit connections and make necessary adjust- ments to obtain specified charging operation.
	 Cell plates have lost much of their active material as a result of overcharging. Internal short-circuit in the battery. Too low battery voltage. Too old battery. 	Replace the battery, and correct the charging system. Replace the battery. Recharge the battery fully. Replace the battery.
Battery "sulfation".	Incorrect charging rate. (When not in use battery should be checked at least once a month to avoid sulfation.) The battery was left unused in a cold climate for too long.	

WIRE HARNESS, CABLE AND HOSE ROUTING WIRE HARNESS ROUTING

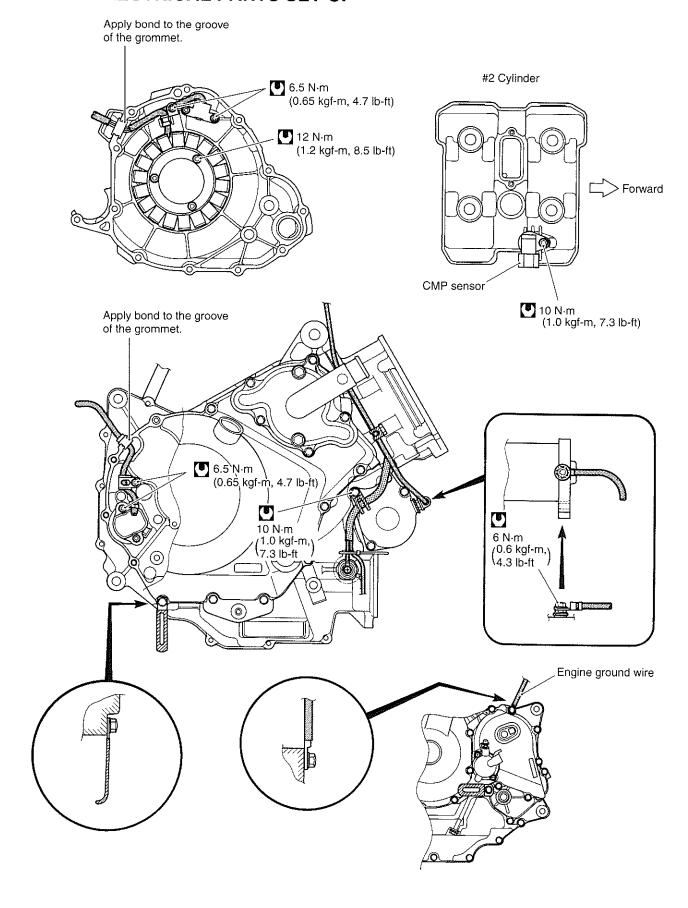




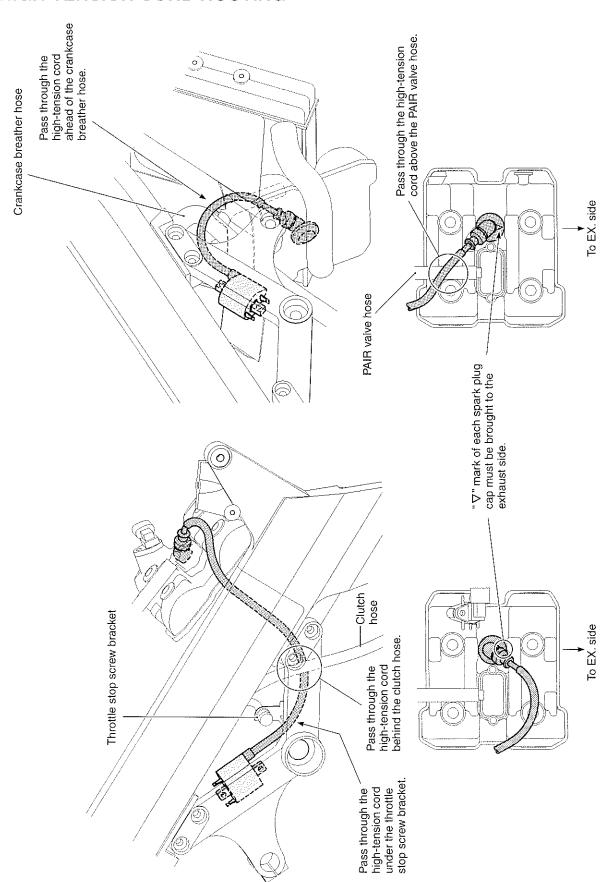




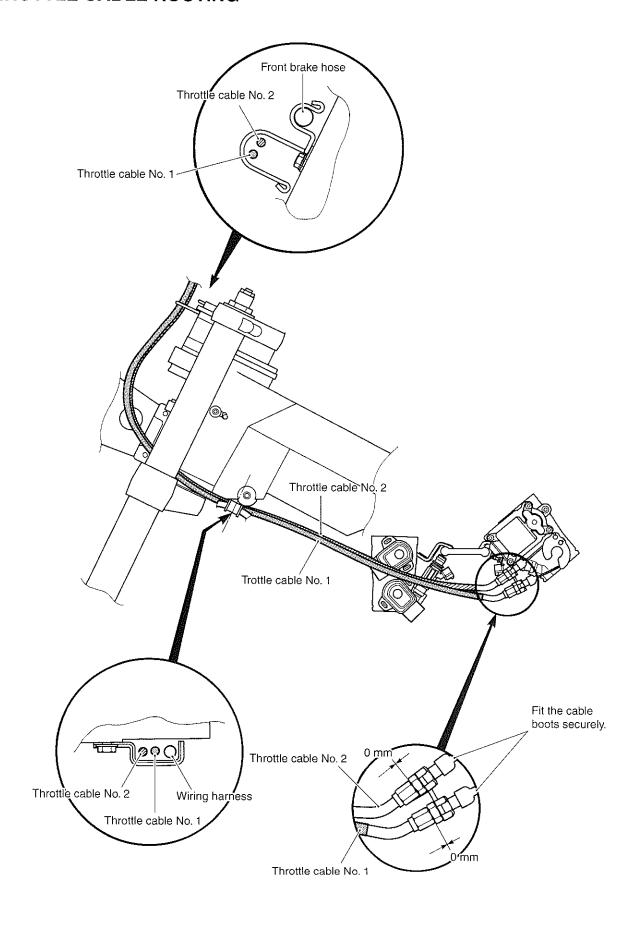
ENGINE ELECTRICAL PARTS SET-UP

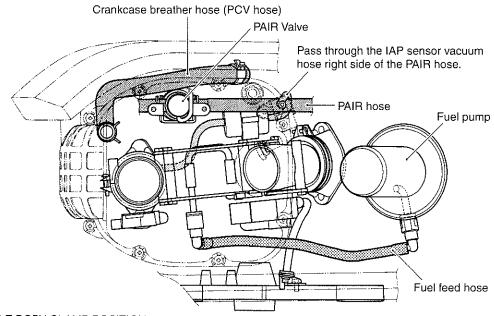


HIGH-TENSION CORD ROUTING

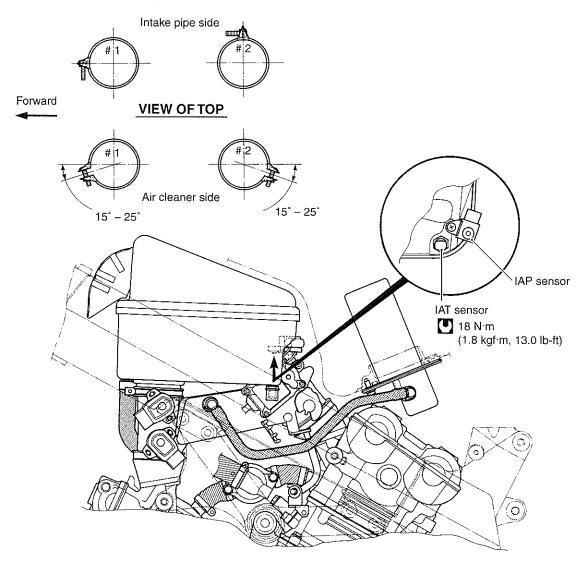


THROTTLE CABLE ROUTING

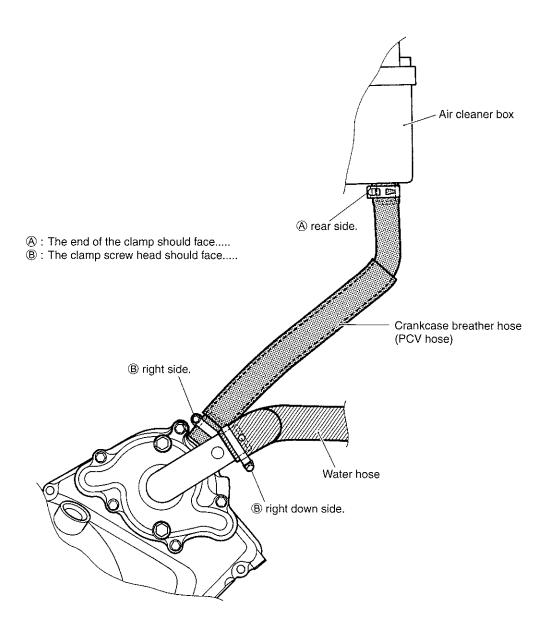


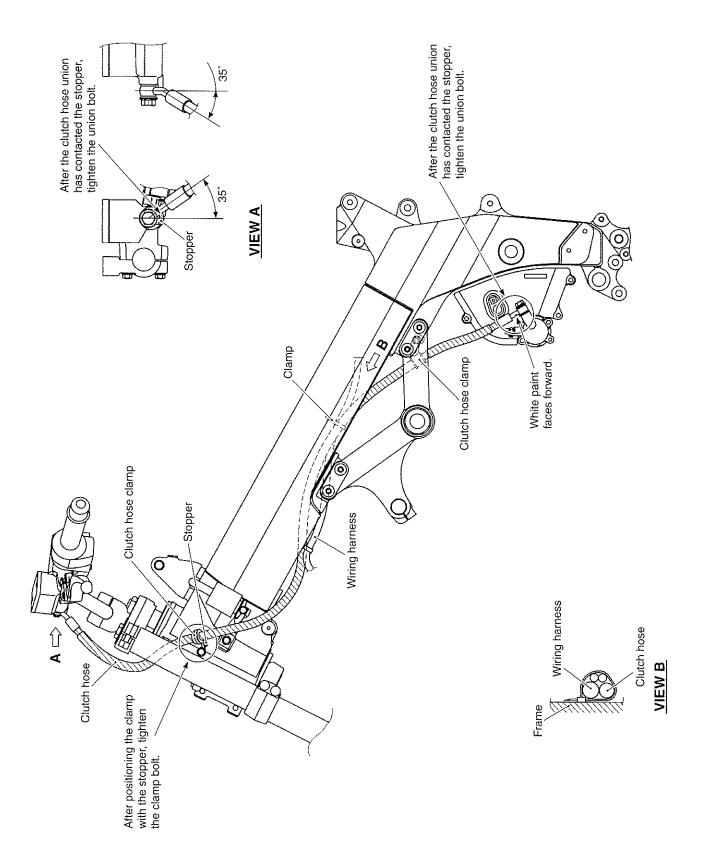


THROTTLE BODY CLAMP POSITION

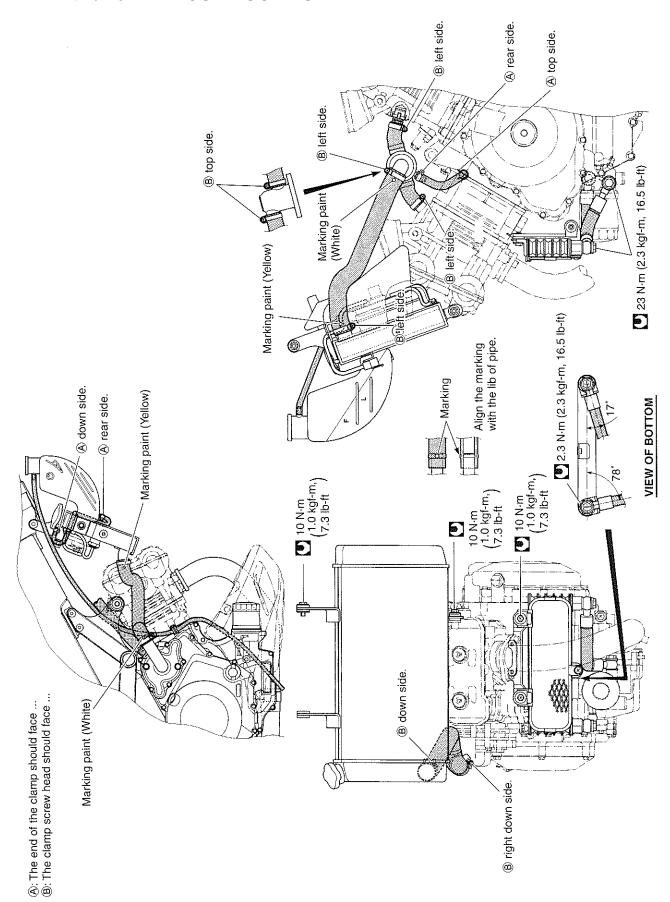


CRANKCASE BREATHER HOSE ROUTING

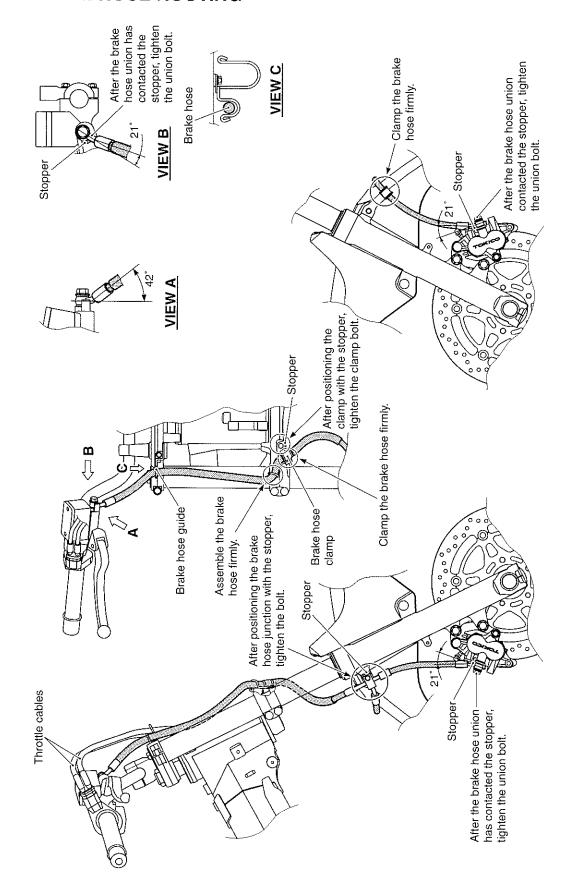




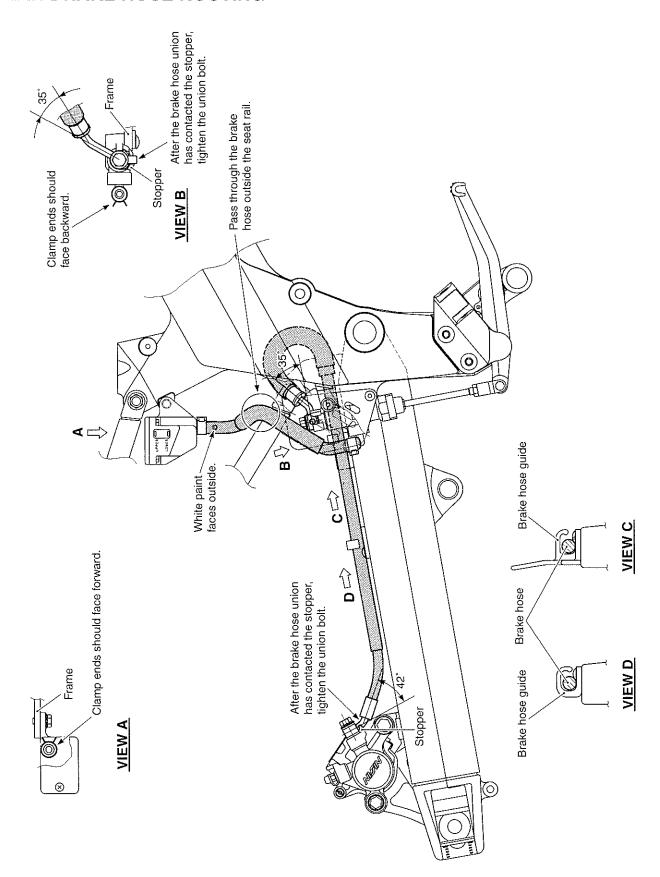
COOLING SYSTEM HOSE ROUTING



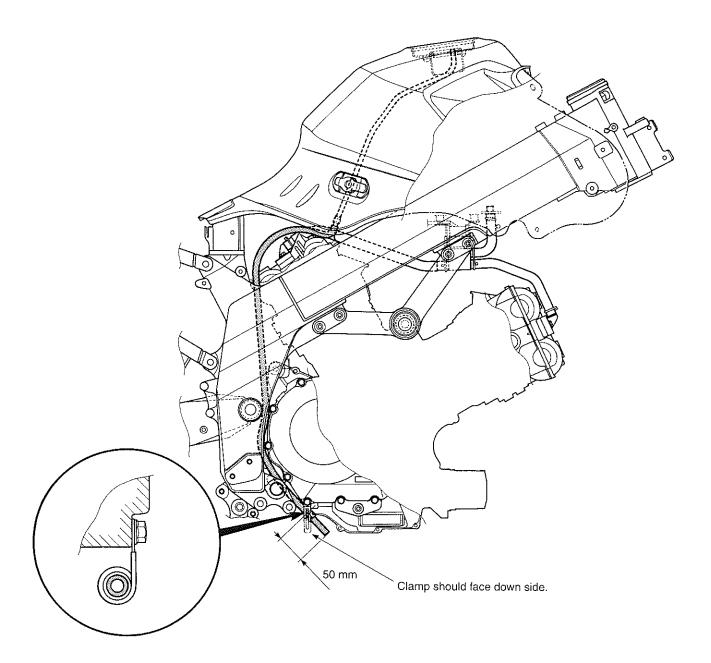
FRONT BRAKE HOSE ROUTING



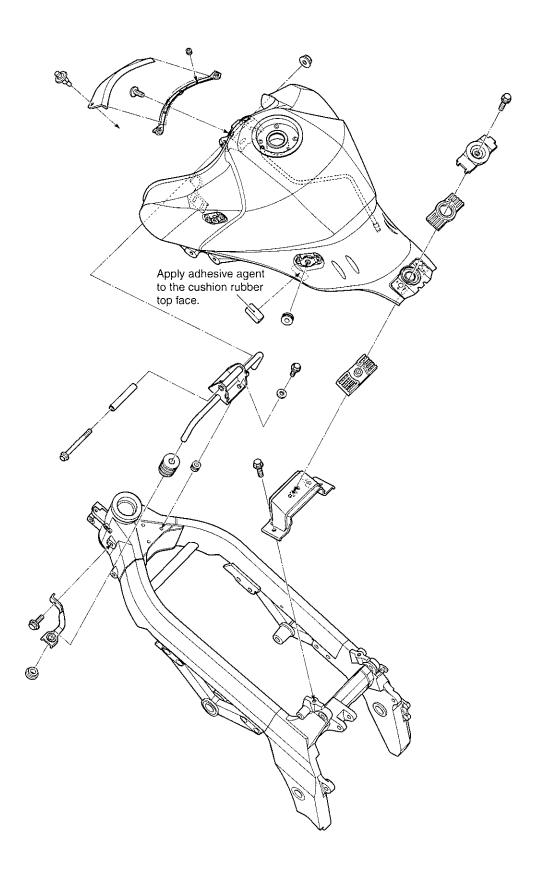
REAR BRAKE HOSE ROUTING



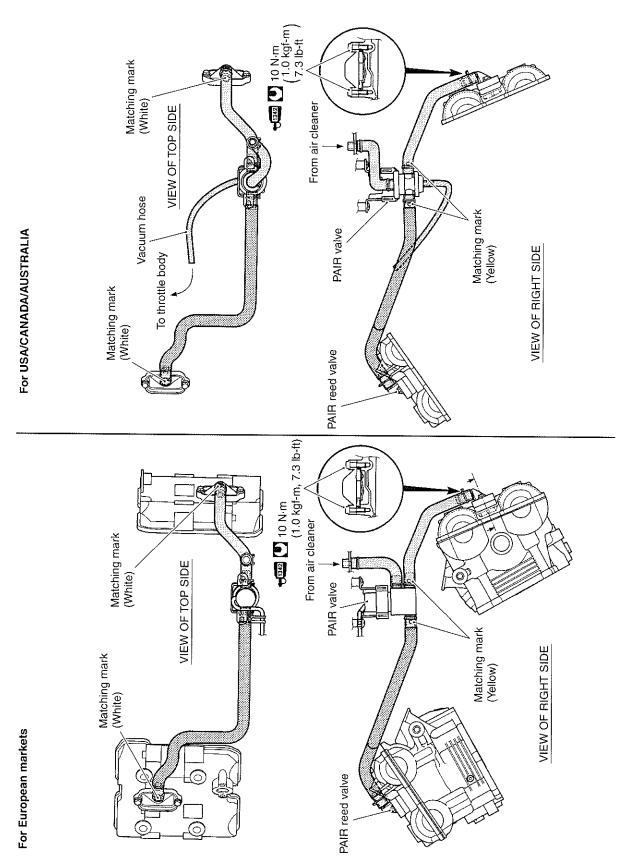
FUEL TANK DRAIN HOSE ROUTING



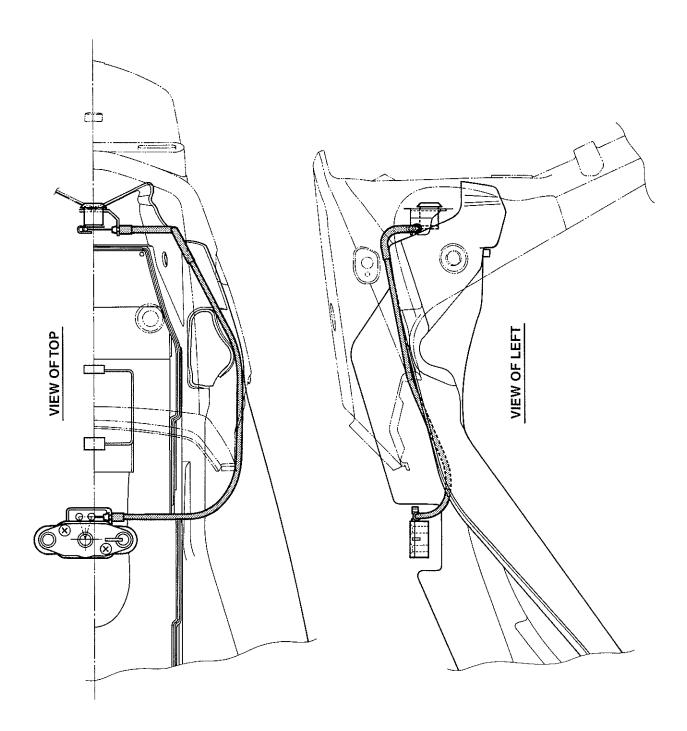
FUEL TANK INSTALLATION



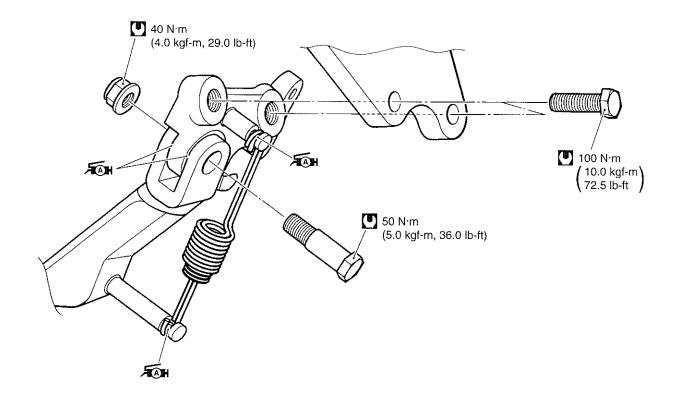
PAIR (AIR SUPPLY) SYSTEM HOSE ROUTING



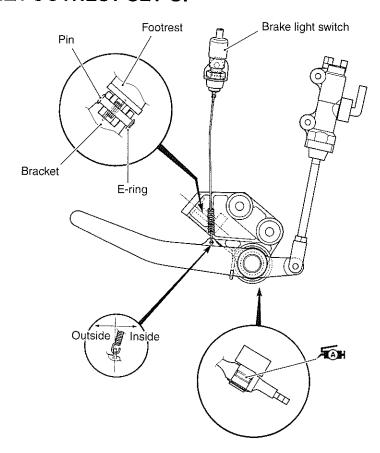
SEAT LOCK CABLE ROUTING



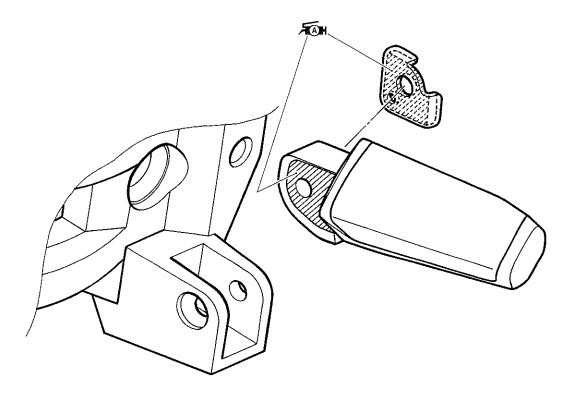
SIDE-STAND SET-UP



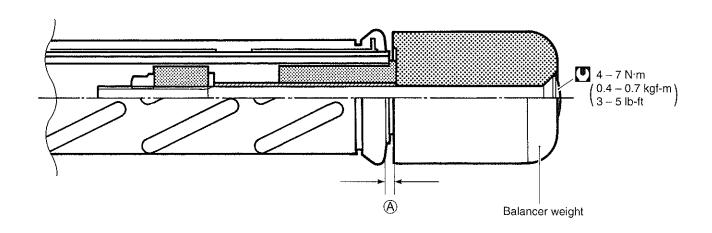
BRAKE PEDAL/FOOTREST SET-UP



FOOTREST SET-UP



HANDLEBAR BALANCER INSTALLATION



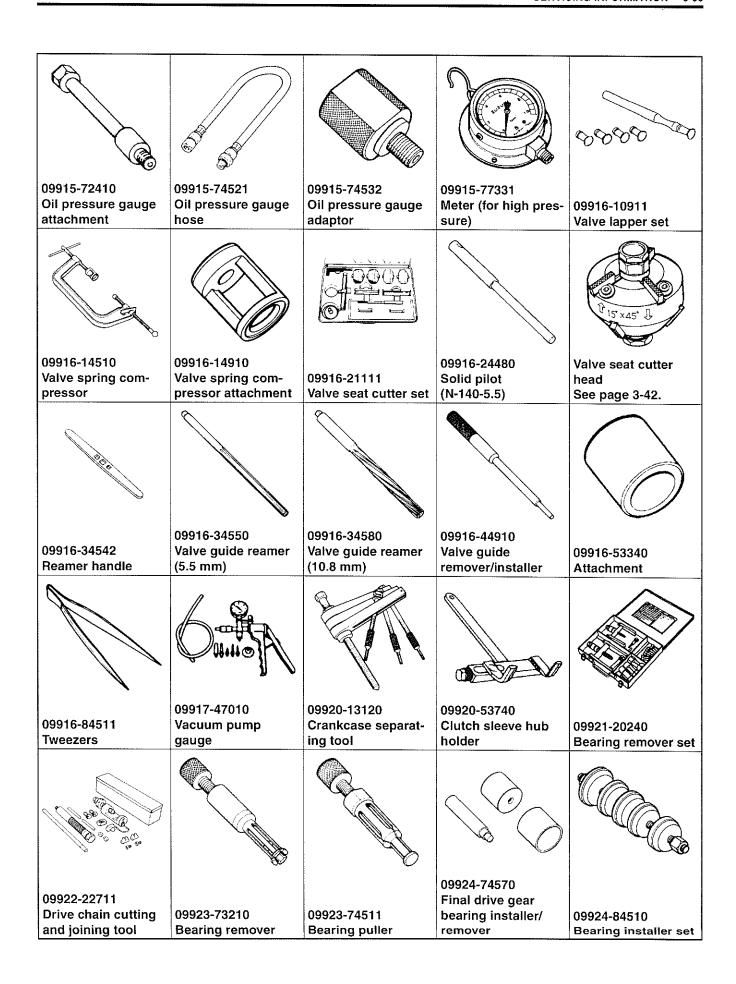
LH clearance (A) is 0 mm. RH clearance (A) is 0.5 – 1.5 mm.

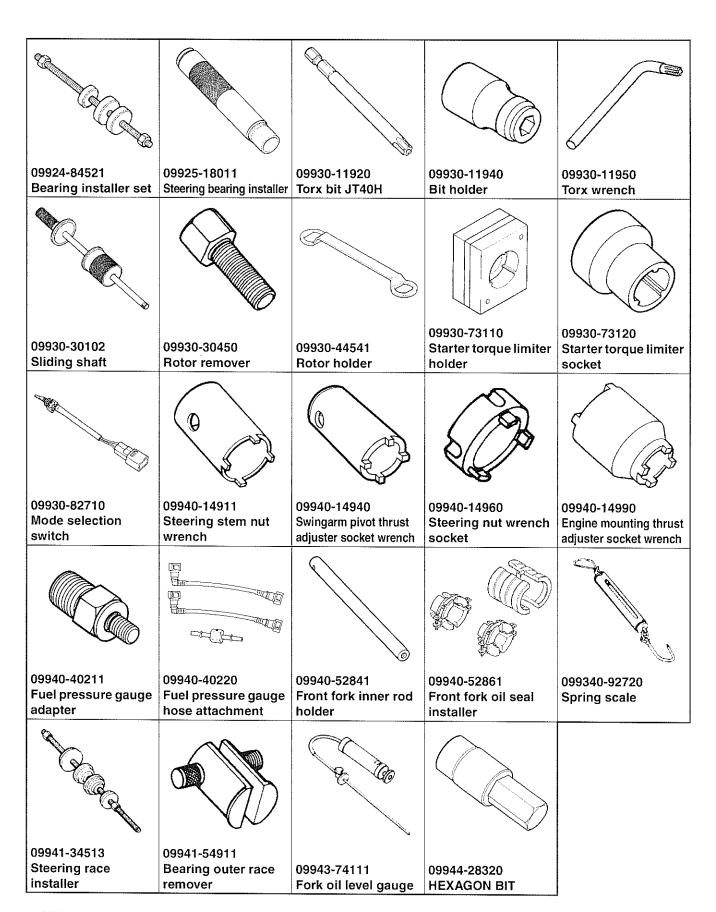
NOTE:

After installing the RH balancer weight, check that throttle grip rotate smoothly by turning it.

SPECIAL TOOLS







NOTE:

TIGHTENING TORQUE ENGINE

ITEM		N⋅m	kgf-m	lb-ft
Cylinder head cover bolt		14	1.4	10.0
Spark plug		11	1.1	8.0
Camshaft journal holder bolt		10	1.0	7.0
Cam chain tension adjuster bolt	[F]	23	2.3	16.5
	[R]	7	0.7	5.0
Cam chain tension adjuster mounting b	oolt	10	1.0	7.0
Cam drive idle gear/sprocket shaft		40	4.0	29.0
Cam chain tensioner mounting bolt		10	1.0	7.0
Cylinder head nut	[M: 8]	25	2.5	18.0
	[M: 6]	10	1.0	7.0
Cylinder head bolt	[M: 10]	47	4.7	34.0
	[M: 6]	10	1.0	7.0
Cylinder nut	[M: 6]	10	1.0	7.0
Water drain bolt	[M: 6]	5.5	0.55	4.0
	[M: 8]	13	1.3	9.5
Clutch sleeve hub nut		150	15.0	108.5
Clutch spring set bolt		10	1.0	7.0
Cam drive idle gear/sprocket nut		70	7.0	50.5
Primary drive gear nut		115	11.5	83.0
Generator cover plug		15	1.5	11.0
Valve timing inspection plug		23	2.3	16.5
Generator rotor bolt		160	16.0	115.5
Starter clutch bolt		26	2.6	19.0
Generator stator set bolt		10	1.0	7.0
Gearshift cam stopper bolt		10	1.0	7.0
Gearshift cam stopper plate bolt		10	1.0	7.0
Gearshift arm stopper bolt		23	2.3	16.5
Oil pressure switch		14	1.4	10.0
Crankcase bolt	[M: 6]	11	1.1	8.0
	[M: 8]	26	2.6	19.0
Generator cover bolt	[M: 6]	11	1.1	8.0
Clutch cover bolt	[M: 6]	11	1.1	8.0
Gearshift cover bolt	[M: 6]	11	1.1	8.0
Water pump case bolt	[M: 6]	11	1.1	8.0
Oil gallery plug	[M: 16]	35	3.5	25.5
	[M: 8]	18	1.8	13.0
Oil drain plug		23	2.3	16.5
Piston cooling oil nozzle screw		8	0.8	6.0
Oil pump mounting bolt		10	1.0	7.0
Conrod bearing cap bolt	(Initial)	35	3.5	25.5
	(Final)	After tightening a turn (90°).	to the above torqu	ie, tighten 1/4 of

ITEM		N∙m	kgf-m	lb-ft
Exhaust pipe bolt		23	2.3	16.5
Muffler mounting bolt/nut		23	2.3	16.5
Oil cooler union bolt		23	2.3	16.5
Engine sprocket nut		115	11.5	83.0
Engine mounting pinch bolt		23	2.3	16.5
Engine mounting bolt/nut	[M: 12]	75	7.5	54.0
	[M: 10]	55	5.5	40.0
Engine mounting thrust adjuster		12	1.2	8.5
Engine mounting thrust adjuster lo	ck nut	45	4.5	32.5
Engine mounting bracket pinch bol	t	23	2.3	16.5
Engine mounting bracket bolt		23	2.3	16.5
Cooling fan thermo-switch		18	1.8	13.0

FI SYSTEM PARTS

ITEM	N⋅m	kgf-m	lb-ft
Speed sensor rotor bolt	13	1.3	9.5
ECTS	18	1.8	13.0
IATS	18	1.8	13.0
CMPS mounting bolt	8	0.8	5.7
Fuel delivery pipe mounting screw	5	0.5	3.7
Fuel pump mounting bolt	10	1.0	7.3
Throttle body connecting bolt	5	0.5	3.7
Actuator motor cover nut	2	0.2	1.5
TPS and STPS mounting screw	3.5	0.35	2.5

CHASSIS

ITEM	N⋅m	kgf-m	lb-ft
Steering stem head nut	90	9.0	65.0
Steering stem lock nut	80	8.0	58.0
Front fork upper clamp bolt	23	2.3	16.5
Front fork lower clamp bolt	23	2.3	16.5
Front fork cap bolt	23	2.3	16.5
Front fork inner rod lock nut	20	2.0	14.5
Front fork damper rod bolt	20	2.0	14.5
Front axle	100	10.0	72.5
Front axle pinch bolt	23	2.3	16.5
Handlebar clamp bolt	23	2.3	16.5
Handlebar holder nut	45	4.5	32.5
Front brake master cylinder mounting bolt	10	1.0	7.0
Front brake caliper mounting bolt	39	3.9	28.0
Brake hose union bolt	23	2.3	16.5
Clutch master cylinder mounting bolt	10	1.0	7.0
Clutch hose union bolt	23	2.3	16.5
Air bleeder valve	7.5	0.75	5.5
Brake disc bolt	23	2.3	16.5
Rear brake caliper mounting bolt	23	2.3	16.5
Rear brake caliper sliding pin	27	2.7	19.5
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake master cylinder rod lock nut	18	1.8	13.0
Rear brake pad mounting pin	17	1.7	12.5
Rear brake pad mounting pin plug	2.5	0.25	1.8
Front footrest bracket mounting bolt	26	2.6	19.0
Swingarm pivot shaft	15	1.5	11.0
Swingarm pivot nut	100	10.0	72.5
Swingarm pivot shaft lock nut	90	9.0	65.0
Rear shock absorber mounting nut (Upper and lower)	50	5.0	36.0
Cushion lever mounting nut (Front)	78	7.8	56.5
Cushion rod mounting nut (Upper and lower)	78	7.8	56.5
Rear axle nut	100	10.0	72.5
Rear sprocket nut	60	6.0	43.5
Seat rail mounting bolt	50	5.0	36.0
Cowling brace mounting bolt/nut	35	3.5	25.5

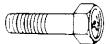
TIGHTENING TORQUE CHART

For other bolts and nuts listed previously, refer to this chart:

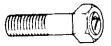
Bolt Diameter	Convent	Conventional or "4" marked bolt			"7" marked bolt			
(mm)	N⋅m	kgf-m	lb-ft	N∙m	kgf-m	lb-ft		
4	1.5	0.15	1.0	2.3	0.23	1.5		
5	3	0.3	2.0	4.5	0.45	3.0		
6	5.5	0.55	4.0	10	1.0	7.0		
8	13	1.3	9.5	23	2.3	16.5		
10	29	2.9	21.0	50	5.0	36.0		
12	45	4.5	32.5	85	8.5	61.5		
14	65	6.5	47.0	135	13.5	97.5		
16	105	10.5	76.0	210	21.0	152.0		
18	160	16.0	115.5	240	24.0	173.5		



Conventional bolt



"4" marked bolt



"7" marked bolt

SERVICE DATA VALVE + GUIDE

ITEM		STANDARD	LIMIT
Valve diam.	IN.	36 (1.42)	
	EX.	33 (1.30)	*******
Tappet clearance (when cold)	IN.	0.10 - 0.20 (0.004 - 0.008)	_
	EX.	0.20 - 0.30 (0.008 - 0.012)	_
Valve guide to valve stem clear- ance	IN.	0.010 - 0.037 (0.0004 - 0.0015)	
	EX.	0.030 - 0.057 (0.0012 - 0.0022)	_
Valve guide I.D.	IN. & EX.	5.500 - 5.512 (0.2165 - 0.2170)	
Vaive stem O.D.	IN.	5.475 - 5.490 (0.2156 - 0.2161)	
	EX.	5.455 - 5.470 (0.2148 - 0.2154)	
Valve stem deflection	IN. & EX.	_	0.35 (0.014)
Valve stem runout	IN. & EX.	_	0.05 (0.002)
Valve head thickness	IN. & EX.		0.5 (0.02)
Valve seat width	IN. & EX.	0.9 - 1.1 (0.035 - 0.043)	
Valve head radial runout	IN. & EX.		0.03 (0.001)
Valve spring free length	IN. & EX.		39.6 (1.56)
Valve spring tension	IN. & EX.	197 - 227 N (20.1 - 23.1 kgf, 44.3 - 51.0 lbs) at length 35.6 mm (1.40 in)	_

Unit: mm (in)

ITEM		STANDARD	LIMIT
Cam height	IN.	36.28 - 36.32 (1.428 - 1.430)	35.98 (1.417)
	EX.	35.68 - 35.72 (1.405 - 1.406)	35.38 (1.393)
Camshaft journal oil clearance	IN. & EX.	0.019 0.053 (0.0007 0.0021)	0.150 (0.0059)
Camshaft journal holder I.D.	IN. & EX.	22.012 - 22.025 (0.8666 - 0.8671)	
Camshaft journal O.D.	IN. & EX.	21.972 - 21.993 (0.8650 - 0.8659)	
Camshaft runout	IN. & EX.	-	0.10 (0.004)
Cam drive idle gear/sprocket thrust clearance		0.15 - 0.29 (0.006 - 0.011)	
Cylinder head distortion		_	0.05 (0.002)

CYLINDER + PISTON + PISTON RING

Office than (in						
ITEM			STANDARD	LIMIT		
Compression pressure (Automatic de-comp. actuated)		(10 –	1 000 – 1 400 kPa 14 kgf/cm², 142 – 199 psi)	800 kPa (8 kgf/cm², 114 psi)		
Compression pressure difference			_	200 kPa (2 kgf/cm², 28 psi)		
Piston to cylinder clearance			0.015 - 0.025 (0.0006 - 0.0010)	0.12 (0.0047)		
Cylinder bore			98.000 - 98.015 (3.8583 - 3.8589)	Nicks or Scratches		
Piston diam.	97.980 – 97.995 (3.8575 – 3.8581) Measure at 10 mm (0.4 in) from the skirt end.			97.880 (3.8535)		
Cylinder distortion				0.05 (0.002)		
Piston ring free end gap	1st		Approx. 8.8 (0.35)	7.0 (0.28)		
	2nd		Approx. 10.1 (0.40)	8.1 (0.32)		
Piston ring end gap	1st	st 0.15 - 0.35 (0.006 - 0.014)		0.5 (0.02)		
	2nd	RN	0.30 - 0.45 (0.012 - 0.018)	0.7 (0.03)		
Piston ring to groove clearance	1st —		0.18 (0.0071)			
	2nd		_	0.15 (0.0059)		

ITEM		STANDARD	LIMIT
Piston ring groove width	1 ot	0.93 - 0.95 (0.0366 - 0.0374)	_
	1st -	1.55 - 1.57 (0.0610 - 0.0618)	
	2nd	1.01 - 1.03 (0.0398 - 0.0406)	800000
	Oil	2.51 - 2.53 (0.0988 - 0.0996)	_
Piston ring thickness	104	0.86 - 0.91 (0.034 - 0.036)	
	1st	1.38 1.40 (0.054 0.055)	_
	2nd	0.97 - 0.99 (0.038 - 0.039)	_
Piston pin bore I.D.		22.002 - 22.008 (0.8662 - 0.8665)	22.030 (0.8673)
Piston pin O.D.		21.992 - 22.000 (0.8658 - 0.8661)	21.980 (0.8654)

CONROD + CRANKSHAFT

ITEM	STANDARD	LIMIT
Conrod small end I.D.	22.010 - 22.018 (0.8665 - 0.8668)	22.040 (0.8677)
Conrod big end side clearance	0.17 - 0.32 (0.007 - 0.013)	0.50 (0.020)
Conrod big end width	21.95 - 22.00 (0.864 - 0.866)	_
Crank pin width	44.17 - 44.22 (1.739 - 1.741)	_
Conrod big end oil clearance	0.040 0.064 (0.0016 0.0025)	0.080 (0.0031)
Crank pin O.D.	44.976 – 45.000 (1.7707 – 1.7717)	_
Crankshaft journal oil clearance	0.002 - 0.029 (0.0008 - 0.0011)	0.080 (0.0031)
Crankshaft journal O.D.	47.985 – 48.000 (1.8892 – 1.8898)	
Crankshaft journal holder width	25.2 - 25.4 (0.99 - 1.00)	_
Crankshaft journal width	25.50 - 25.55 (1.004 - 1.006)	
Crankshaft runout	, All all and	0.05 (0.004)

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pressure (at 60°C, 140°F)	Above 400 kPa (4.0 kgf/cm², 57 psi) Below 700 kPa (7.0 kgf/cm², 100 psi) at 3 000 r/min.	

CLUTCH

Unit: mm (in)

	1			
ITEM		STANDARD	LIMIT	
Drive plate thickness	No.1	2.92 - 3.08 (0.115 - 0.121)	2.62 (0.103)	
	No.2 and 3	3.72 - 3.88 (0.146 - 0.153)	3.42 (0.135)	
Drive plate claw width	No.1	13.85 - 13.96 (0.545 - 0.550)	13.05 (0.514)	
	No.2 and 3	13.90 - 14.00 (0.547 - 0.551)	13.10 (0.516)	
Driven plate distortion		-	0.10 (0.004)	
Clutch spring free length		59.4 (2.34)		
Clutch master cylinder bore		14.000 - 14.043 (0.5512 - 0.5528)		
Clutch master cylinder piston diam.		13.957 – 13.984 (0.5495 – 0.5505)		
Clutch release cylinder bore		35.700 - 35.762 (1.4055 - 1.4079)	_	
Clutch release cylinder piston diam.		35.650 - 35.675 (1.4035 - 1.4045)	_	

THERMOSTAT + RADIATOR + FAN

ITEM	ITEM STANDARD		LIMIT
Thermostat valve opening temperature		86.5 – 89.5 °C (188 – 193 °F)	_
Thermostat valve lift		Over 8 mm (0.31 in) at 100 °C (212 °F)	_
Radiator cap valve o pressure	pening	110 kPa (1.1 kgf/cm², 15.6 psi)	_
Cooling fan ther-	ON→OFF	Approx. 105 °C (221°F)	-
moswitch operating temperature	ON→OFF	Approx. 100 °C (212°F)	
Engine coolant tem- perature sensor	20 °C (68 °F)	Approx. 2.45 kΩ	_
resistance 40 °C (104 °F)		Approx. 1.148 kΩ	AN
	60 °C (140 °F)	Approx. 0.587 kΩ	_
	80 °C (176 °F)	Approx. 0.322 kΩ	_

DRIVE TRAIN

Unit: mm (in) Expect ratio

ITEM			STANDARD	LIMIT
Primary reduction rat	tio	1.838 (57/31)		
Final reduction ratio			2.411 (41/17)	
Gear ratio	Low		3.000 (36/12)	
	2nd		1.933 (29/15)	-
	3rd		1.500 (27/18)	-
	4th		1.227 (27/22)	<u> </u>
	5th		1.086 (25/23)	_
	Тор		0.913 (21/23)	
Shift fork to groove cle	earance		0.1 - 0.3 (0.004 - 0.012)	0.50 (0.020)
Shift fork groove width)		5.0 – 5.1 (0.197 – 0.201)	_
Shift fork thickness			4.8 – 4.9 (0.189 – 0.193)	
Drive chain		Туре	RK525SMOZ7	*********
		Links	112 links, ENDLESS	
		20-pitch length		319.4 (12.6)
Drive chain slack		20 - 30 (0.8 - 1.2)		_
Gearshift lever height			25 (1.0)	

INJECTOR + FUEL PUMP + FUEL PRESSURE REGURATOR

ITEM	SPECIFICATION	NOTE
Injector resistance	12 – 18 Ω at 20 °C (68°F)	
Fuel pump discharge amount	Approx. 1.2 L (1.3/1.1 US/lmp qt) for 30 seconds at 300 kPa (3.0 kgf/cm², 43 psi)	
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm², 43 psi)	

FI-SENSORS

ITEM		NOTE	
CMP sensor peak voltage			
CKP sensor resistance			
CKP sensor peak voltage	More th	nan 3.7 V (When cranking)	
IAP sensor input voltage		4.5 – 5.5 V	
IAP sensor output voltage	App	rox. 2.5 V at idle speed	
TP sensor input voltage		4.5 – 5.5 V	
TP sensor resistance	Closed	Approx. 1.1 kΩ	
	Opened	Approx. 4.3 kΩ	
TP sensor output voltage	Closed	Approx. 1.1 V	
-	Opened	Approx. 4.3 V	
ECT sensor input voltage		4.5 – 5.5 V	
ECT sensor reisitance	Appro	x. 2.45 kΩ at 20 °C (68°F)	
IAT sensor input volatage		4.5 – 5.5 V	
IAT sensor resistance	Appro		
AP sensor input voltage			
AP sensor output voltage	Approx. 4		
TO sensor resistance	19.1 – 19.7 kΩ		
TO sensor voltage	Approx. 0.4 1.4 V		
GP switch voltage	More than 1.0 V (From 1st to top)		
Injector voltage	Battery voltage		
Ignition coil primary peak voltage	More than 150 V (When cranking)		
STP sensor input voltage		4.5 – 5.5 V	
STP sensor resistance	Closed Approx. 1.1 kΩ		
	Opened	Approx. 4.3 kΩ	
STP sensor output voltage	Closed	Approx. 1.1 V	
	Opened	Approx. 4.3 V	
STV actuator resistance	4.8 – 7.2 Ω		
Heated oxygen sensor output voltage	less than 0.4 V at idle speed (After warming up)		
Heated oxygen sensor resis- tance	4 – 5 Ω at 23 °C (73.4 °F)		European markets
PAIR solenoid valve resistance	20 -		

THROTTLE BODY

ITEM	SPECIFICATION		
ID No.	06G0 (For E-02, 19), 06G1 (For E-33), 06G2 (For E-03, 24, 28)		
Bore size	45 mm		
Fast idle r/min	1 500 – 2 100 r/min at 25 °C (77 °F)		
Idle r/min	1 200 ± 100 r/min/Warmed engine		
Throttle cable play	2.0 – 4.0 r/min (0.08 – 0.16 in)		

ELECTRICAL

·	ITEM	:	SPECIFICATION		
Ignition timing	3		4° B.T.D.C. at 1 200 r/min		
Firing order	 		1.2		
Spark plug		Туре	NGK: CR8EK Denso: U24ETR		
		Gap	0.6 - 0.7 (0.024 - 0.028)		
Spark perforr	nance		Over 8 (0.3) at 1 atm.		
Crankshaft per	osition sensor		130 – 240 Ω	BI – G	
Ignition coil re	esistance	Primary	2 – 5 Ω	⊕ tap – ⊖ tap	
		Secondary	/ 24 – 37 kΩ	⊕ tap – Plug cap	
Crankshaft po voltage	osition sensor pe	ak	More than 3.7 V	When cranking	
Ignition coil p age	rimary peak volt	-	More than 150 V		
Generator co	il resistance		0.2 – 0.5 Ω	Y – Y	
Generator Ma	ax. output	А	pprox. 350 W at 5 000 r/min		
Generator no (When engin	o-load voltage e is cold)	More	More than 75 V (AC) at 5 000 r/min		
Regulated vo	ltage		14.0 - 15.5 V at 5 000 r/min		
Starter relay	resistance		3 – 6 Ω		
Battery	Type designation		FTX14-BS		
	Capacity	1	12 V 43.2 kC (12 Ah)/10 HR		
Fuze size	Lloodlinkt	HI 15 A			
	Headlight L	.0	15 A		
Turn signal			15 A		
	Ignition		15 A		
	Fan motor		15 A		
	Meter		10 A		
	Main		30 A		

WATTAGE Unit: W

ITEM		SPECIFICATION				
		E-03, 24, 28, 33	The others			
Headlight	H1	60 × 2				
	LO	55 × 2	←			
Position light			5 × 2			
Brake light/Taillight		21/5 × 2	-			
Turn signal light		10 × 4	(
Speedometer Tachometer light		LED	(
Turn signal indicator I	ight	LED	(
High beam indicator I	ight	LED	(
Neutral indicator light		LED	←			
Over drive indicator	light	LED	(
Coolant temperature light	warning	LED	(
Oil pressure warning	g light	LED	<			
Fuel injection warning	ng light	LED	←			
License light		5				

BRAKE + WHEEL

	Onic. min (in)		
ITEM		LIMIT	
Rear brake pedal height			
Brake disc thickness	Front	5.0 ± 0.2 (0.197 ± 0.008)	4.5 (0.18)
	Rear	5.0 ± 0.2 (0.197 ± 0.008)	4.5 (0.18)
Brake disc runout (Front & Rear)			0.30 (0.012)
Master cylinder bore	Front	15.870 - 15.913 (0.6248 - 0.6265)	
	Rear	14.000 — 14.043 (0.5512 — 0.5529)	
Master cylinder piston diam.	Front	15.827 - 15.854 (0.6231 - 0.6242)	
	Rear	13.957 – 13.984 (0.5495 – 0.5506)	
Brake caliper cylinder bore	Front	30.230 - 30.306 (1.1902 - 1.1931)	
	Rear	38.180 - 38.230 (1.5031 - 1.5051)	
Brake caliper piston diam.	Front	30.150 - 30.200 (1.1870 - 1.1890)	
	Rear	38.098 - 38.148 (1.4999 - 1.5019)	
Wheel rim runout (Front & Rear)	Axial		2.0 (0.08)
	Radial	<u> </u>	2.0 (0.08)

ITEM		STANDARD		
Wheel axle runout	Front	_	0.25 (0.010)	
	Rear	<u> </u>	0.25 (0.010)	
Wheel rim size	Front	19M/C × MT 2.50		
	Rear	17M/C × MT 4.00	_	
Tire size	Front	110/80R19M/C 59H	_	
	Rear	150/70R17M/C 69H		
Tire type	Front	BRIDGESTONE: TW101 F	-	
	Rear	BRIDGESTONE: TW152 F		
Tire tread depth	Front	_	1.6 (0.06)	
	Rear		2.0 (0.08)	

SUSPENSION

Unit: mm (in)

ITEM		LIMIT		
Front fork stroke				
Front fork spring free length		-		
Front fork oil level (without spring, inner tube fully compressed)				
Rear shock absorber spring adjuster	2nd groove from bottom			
Rear shock absorber damping force adjuster	Rebound % turn out from stiffest position			
Rear wheel travel		<u> </u>		
Swingarm pivot shaft runput			0.3 (0.01)	

TIRE PRESSURE

COLD INFLATION	S	SOLO RIDING			DUAL RIDING		
TIRE PRESSURE	kPa	kgf/cm ²	psi	kPa	kgf/cm ²	psi	
FRONT	250	2.50	36	250	2.50	36	
REAR	250	2.50	36	280	2.80	41	

FUEL + OIL + ENGINE COOLANT

ITEM		SPECIFICATION	NOTE
Fuel type	Use only unleaded octane (R+M / 2) or research method. Tertiary Butyl Ethe than 5% methano corrosion inhibitor	E-03, 28, 33	
		ould be graded 91 octane or higher. Dline is recommended.	The others
Fuel tank	(
Engine oil type	SAE	10W/40, API SF or SG	
Engine oil capacity	Change	2 700 ml (2.9/2.4 US/lmp qt)	
	Filter change	2 900 ml (3.1/2.6 US/lmp qt)	
	Overhaul	3 300 ml (3.5/2.9 US/lmp qt)	
Front fork oil type	SUZUKI FORK		
Front fork oil capacity (each leg)	(17		
Brake fluid type			
Engine coolant type	Use an anti-freeze radiator, mixed wi 50:50.		
Engien coolant	Reserve tank side		
	Engine side	Approx. 1 950 ml (2.1/1.7 US/lmp qt)	