Features & Specifications
2017 GW250

GW250L7

YAY: Pearl Nebular Black

Introduction

The Suzuki GW250 is an intelligent motorcycle in a class of its own. When you wonder if a motorcycle exists with electrifying style and value, wonder no more because the GW250 has arrived. It generates lightning fast low-end and mid-range power from its 248cc, liquid cooled, lightweight, two cylinder engine. The GW250 not only delivers on power but on comfort and style as well.

The striking bodywork provides an aggressive naked statement to many riders and is sure to break away from the norm. Its chassis is designed to provide the foundation for a variety of riding styles, while displaying the bike's more visible and prominent features. Whether you're roving city streets or are out on the open road, the GW250's maneuverability and efficient fuel economy is the perfect choice for your daily transportation, and riding fun, needs.

Key Features

- **Big bike looks and quality with a modern stylish design thanks to distinctive body work.**
- **Smooth-running, parallel twin sips fuel but brings more performance that its size would imply.**
- **Ergonomically sound riding position lets riders tackle any mission; from urban commuting to long distance rides – it's all within the GW250's wheelhouse.**

Engine Features

- **In-line, twin cylinder, 248cc liquid-cooled engine has rider-friendly power characteristics to suit a variety of riding conditions.**
- **A coupling-type balancer shaft fitted to the engine's crankshaft reduces vibration and enhances rider comfort.**
- **Electronic Fuel Injection system (EFI) controls the fuel delivery and the ignition timing based upon the riding conditions to improve fuel economy and reduce emissions.**
- **The EFI also stabilizes the engine idle and helps provide nearly linear throttle response for clean, exciting performance.**
- **A six-speed transmission, with gear ratios well mated to the engine output, further improves low- to mid-range power delivery.**
- **Dual head-pipes effectively route the exhaust through a pair of long and low chromed mufflers that are balanced to the side of the rear wheel.**

Chassis Features

- **The semi double-cradle chassis is designed to provide abundant support for a variety of riding styles and is the foundation for the visually strong bodywork.**
- **The well-tuned telescopic front fork soaks up bumps for smooth tracking up front – whether riding rough city streets or faster open roads.**
- **Rear suspension action is handled by a mono-shock system that stays hidden from view to augment the bike's performance style. With seven-way adjustable spring preload, the rear suspension can be tuned for a passenger or cargo.**
- **The handlebar's design and bend were developed to provide a comfortable riding position.**
- **The 5-way adjustable brake lever allows the rider to position the lever for comfort and confidence.**
- **Hydraulic disc brakes front and rear provide consistent and controlled braking whether commuting on city streets or roaming the open road.**
- **Strong three-spoke 17-inch aluminum wheels hold road-grabbing tires that can provide sporting performance through a variety of road conditions.**
- **The multi-function instrumentation displays a variety of information. In the center, there is large analog tachometer with convenient digital gear position indicator. It's flanked by a digital LCD speedometer, odometer, twin trip meter, clock and fuel gauge readouts, a service indicator, plus LED alert indicators on the left.**
- **The bright halogen headlight is housed in a prominent nacelle that heads off the bike's styling.**
- **Unique front turn signals built into the radiator side covers create a striking impression.**
- **The rear turn signals feature clear lenses like the front signals, and are well placed to not interfere with a passenger or luggage.**
- **A distinctively styled fuel tank holds 3.5 US gallons (13.3 L) of gasoline for excellent riding range.**
- **The comfortable contoured seat has a low seat height of 30.7 inch (780 mm) and also has passenger grab bars for comfortable two-up rides.**
- **The rear tail cowl finishes off the motorcycles lines in style as it links into the grab rails and taillight.**
- **The taillight uses double pane construction with a clear lens covering the red tail/brake lights.**

Additional Features

- **12-month limited warranty with unlimited mileage. Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).**
- **Three dimensional "S" badges on the fuel tank and upper fork bracket celebrate the Suzuki brand and its heritage of technological and styling excellence.**
- **A variety of Genuine Suzuki Accessories for GW250 owners are available including a large selection of Suzuki logo apparel.**
- **For more details, please visit www.suzukicycles.com.**

Specifications GW250L7
P-03: USA, P-33: California

DIMENSIONS AND CURB MASS

Overall length	2145 mm (84.4 in)
Overall width	760 mm (29.9 in)
Overall height	1075 mm (42.3 in)
Wheelbase	1430 mm (56.3 in)
Ground clearance	165 mm (6.4 in)
Seat height	780 mm (30.7 in)
Curb mass	183 kg (403 lbs)

ENGINE

Type	Four stroke, liquid-cooled, SOHC
Number of cylinders	2
Bore	53.5 mm (2.106 in)
Stroke	55.2 mm (2.173 in)
Displacement	248 cm^3 (15.1 cu. in)
Compression ratio	11.5 : 1
Fuel system	Fuel injection
Air cleaner	Non-woven fabric element
Starter system	Electric
Lubrication system	Wet sump
Idle speed	1400 ± 100 r/min

DRIVE TRAIN

Clutch		Wet multi-plate type
Transmission		6-speed constant mesh
Gearshift pattern		1-down, 5-up
Primary reduction ratio		3.238 (68/21)
Gear ratios,	Low	2.417 (29/12)
	2nd	1.529 (26/17)
	3rd	1.182 (26/22)
	4th	1.043 (24/23)
	5th	0.909 (20/22)
	Top	0.808 (21/26)
Final reduction ratio		3.286 (46/14)
Drive chain		DID520VF, 116 links

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CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension	Swingarm type, coil spring, oil damped
Front fork stroke	120 mm (4.7 in)
Rear wheel travel	125 mm (4.9 in)
Steering angle	40°
Caster	26°
Trail	105 mm (4.13 in)
Turning radius	2.5 m (8.2 ft)
Front brake	Disc brake
Rear brake	Disc brake
Front tire size	110/80-17 M/C 57H, tubeless
Rear tire size	140/70-17 M/C 66H, tubeless

ELECTRICAL

Ignition type	Electronic ignition (Transistorized)
Ignition timing	10° CA B.T.D.C.at 1400 r/min
Spark plug	NGK CR7E or DENSO U22ESR-N
Battery	12 V 36.0 kC (8 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30 A
Fuse	10/10/10/15 A
Headlight	12 V 60/55 W
Position light	12 V 5 W × 2
Turn signal light	12 V 10 W
License plate light	12 V 5 W
Brake/Tail light	12 V 21/5 W
Combination meter light	LED
Neutral indicator light	LED
High beam indicator light	LED
Turn signal indicator light	LED
Oil pressure/Coolant temperature/Fuel injection warning light	LED
Engine rpm indicator light	LED

CAPACITIES

Fuel tank, including reserve		13.3 L (3.5/2.9 US/Imp gal)
Engine oil,	oil change	2100 ml (2.2/1.8 US/Imp qt)
	with filter change	2400 ml (2.5/2.1 US/Imp qt)
	overhaul	2400 ml (2.5/2.1 US/Imp qt)
Coolant		1350 ml (1.4/1.2 US/Imp qt)

VALVE + GUIDE

Unit: mm (in)

ITEM	STANDARD		LIMIT
Valve diam.	IN.	27.0 (1.06)	—
	EX.	22.5 (0.89)	—
Valve clearance (when cold)	IN.	0.05 – 0.10 (0.002 – 0.004)	—
	EX.	0.17 – 0.22 (0.007 – 0.009)	—
Valve guide to valve stem clearance	IN.	0.010 – 0.037 (0.0004 – 0.0015)	—
	EX.	0.030 – 0.057 (0.0012 – 0.0022)	—
Valve guide I.D.	IN. & EX.	5.000 – 5.012 (0.1969 – 0.1973)	—
Valve stem O.D.	IN.	4.975 – 4.990 (0.1959 – 0.1965)	—
	EX.	4.955 – 4.970 (0.1951 – 0.1957)	—
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 stem end length	IN. & EX.	—	2.2 (0.09)
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.)	INNER	—	36.6 (1.44)
	OUTER	—	38.4 (1.51)
Valve spring tension (IN. & EX.)	INNER	58.2 – 71.2 N (6.0 – 7.3 kgf, 13.2 –16.1 lbs) at length 28.0 mm (1.10 in)	—
	OUTER	132.2 – 152.2 N (13.5 – 15.5 kgf, 29.7 – 34.2 lbs) at length 31.5 mm (1.24 in)	—

CAMSHAFT + CYLINDER HEAD

Unit: mm (in)

ITEM	STANDARD		LIMIT
Cam height	IN.	33.34 – 33.38 (1.313 – 1.314)	33.04 (1.301)
	EX.	33.05 – 33.09 (1.301 – 1.303)	32.75 (1.289)
Camshaft journal oil clearance	0.032 – 0.066 (0.0013 – 0.0026)		0.150 (0.0059)
Camshaft journal holder I.D.	22.012 – 22.025 (0.8666 – 0.8671)		—
Camshaft journal O.D.	21.959 – 21.980 (0.8645 – 0.8654)		—
Camshaft runout	—		0.10 (0.004)
Rocker arm I.D.	IN. & EX.	12.003 – 12.018 (0.4726 – 0.4731)	—
Rocker arm shaft O.D.	IN. & EX.	11.986 – 11.994 (0.4719 – 0.4722)	—
Cylinder head distortion	—		0.10 (0.004)

CYLINDER + PISTON + PISTON RING

Unit: mm (in)

ITEM	STANDARD			LIMIT
Compression pressure	1 300 – 1 700 kPa (13 – 17 kgf/cm², 185 – 242 psi)			1 000 kPa (10 kgf/cm², 142 psi)
Compression pressure difference	—			200 kPa (2 kgf/cm², 28 psi)
Piston-to-cylinder clearance	0.04 – 0.05 (0.001 – 0.002)			0.120 (0.0047)
Cylinder bore	53.500 – 53.515 (2.1063 – 2.1069)			53.590 (2.1098)
Piston diam.	53.455 – 53.470 (2.1045 – 2.1051) Measure at 10 mm (0.4 in) from the skirt end.			53.380 (2.1016)
Cylinder distortion	—			0.10 (0.004)
Piston ring free end gap	1st	1R	Approx. 5.3 (0.21)	4.2 (0.17)
	2nd	2R	Approx. 4.6 (0.18)	3.6 (0.14)
Piston ring end gap	1st		0.20 – 0.32 (0.008 – 0.013)	0.50 (0.020)
	2nd		0.20 – 0.32 (0.008 – 0.013)	0.50 (0.020)
Piston ring-to-groove clearance	1st		—	0.180 (0.0071)
	2nd		—	0.150 (0.0059)
Piston ring groove width	1st		1.01 – 1.03 (0.0398 – 0.0406)	—
	2nd		1.01 – 1.03 (0.0398 – 0.0406)	—
	Oil		2.01 – 2.03 (0.0791 – 0.0799)	—
Piston ring thickness	1st		0.97 – 0.99 (0.0382– 0.0390)	—
	2nd		0.97 – 0.99 (0.0382 – 0.0390)	—
Piston pin bore	15.002 – 15.008 (0.5906 – 0.5909)			15.030 (0.5917)
Piston pin O.D.	14.996 – 15.000 (0.5904 – 0.5906)			14.980 (0.5898)

CONROD + CRANKSHAFT

Unit: mm (in)

ITEM	STANDARD		LIMIT
Conrod small end I.D.	15.006 – 15.014 (0.5908 – 0.5911)		15.040 (0.5921)
Conrod big end side clearance	0.10 – 0.20 (0.004 – 0.008)		0.30 (0.012)
Conrod big end width	19.95 – 20.00 (0.7854 – 0.7874)		—
Crank pin width	20.10 – 20.15 (0.7913 – 0.7933)		—
Conrod big end oil clearance	0.024 – 0.048 (0.0009 – 0.0019)		0.080 (0.0031)
Crank pin O.D.	30.976 – 31.000 (1.2195 – 1.2205)		—
Crankshaft journal oil clearance	0.016 – 0.040 (0.0006 – 0.0016)		0.080 (0.0031)
Crankshaft journal O.D.	29.976 – 30.000 (1.1802 – 1.1811)		—
Crankshaft thrust bearing thickness	Right side	2.450 – 2.625 (0.0965 – 0.1033)	—
	Left side	2.450 – 2.475 (0.0965 – 0.0974)	
Crankshaft thrust clearance	0.050 – 0.105 (0.0020 – 0.0041)		—
Crankshaft runout	—		0.05 (0.002)

CRANK BALANCER

Unit: mm (in)

ITEM	STANDARD	LIMIT
Crank balancer journal oil clearance	0.020 – 0.044 (0.0008 – 0.0017)	0.080 (0.0031)
Crank balancer journal O.D.	27.976 – 28.000 (1.0660 – 1.1024)	—
Balancer spring free length	—	10.3 (0.41)

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pressure (at 60 °C, 140 °F)	200 – 500 kPa (2 – 5 kgf/cm², 28 – 71 psi) at 3 000 r/min	—

CLUTCH

Unit: mm (in)

ITEM	STANDARD / SPECIFICATION		LIMIT
Clutch cable play	10 – 15 (0.39 – 0.59)		—
Clutch release screw	1 turn counterclockwise		—
Drive plate thickness	No. 1 and 2	2.92 – 3.08 (0.115 – 0.121)	2.62 (0.103)
	No. 3	3.42 – 3.58 (0.135 – 0.141)	3.12 (0.123)
Drive plate claw width	No. 1, 2 and 3	15.9 – 16.0 (0.626 – 0.630)	15.2 (0.598)
Driven plate distortion	No. 1, 2 and 3	—	0.10 (0.004)
Clutch spring free length	38.5 (1.528)		36.6 (1.441)

TRANSMISSION + DRIVE CHAIN

Unit: mm (in) Except ratio

ITEM		STANDARD		LIMIT
Primary reduction ratio		3.238 (68/21)		—
Final reduction ratio		3.286 (46/14)		—
Gear ratios	Low	2.417 (29/12)		—
	2nd	1.529 (26/17)		—
	3rd	1.182 (26/22)		—
	4th	1.043 (24/23)		—
	5th	0.909 (20/22)		—
	Top	0.808 (21/26)		—
Shift fork to groove clearance		0.10 – 0.30 (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	Type	DID520VF RK 520KRO		
	Links	116 links		—
	20-pitch length	—		320.5 (12.62)
Drive chain slack		20 – 30 (0.8 – 1.2)		—
Gearshift lever height		28 – 38 (1.1 – 1.5)		—

THERMOSTAT + RADIATOR + FAN + COOLANT

ITEM	STANDARD/SPECIFICATION		NOTE
Thermostat valve opening temperature	Approx. 88 °C (190 °F)		—
Thermostat valve lift	4.5 mm (0.18 in) and over at 100 °C (212 °F)		—
ECT sensor resistance	20 °C (68 °F)	Approx. 2.45 kΩ	—
	50 °C (122 °F)	Approx. 0.811 kΩ	—
	80 °C (176 °F)	Approx. 0.318 kΩ	—
	110 °C (230 °F)	Approx. 0.142 kΩ	—
Radiator cap valve opening pressure	93 – 123 kPa (0.93 – 1.23 kgf/cm², 13.2 – 17.5 psi)		—
Cooling fan operating temperature	OFF→ON	Approx. 105 °C (221°F)	—
	ON→OFF	Approx. 100 °C (212 °F)	—
Engine coolant type	Use an antifreeze/coolant compatible with aluminum radiator, mixed with distilled water only, at the ratio of 50:50.		—
Engine coolant	Reserve tank side	Approx. 250 ml (0.3/0.2 US/Imp qt)	—
	Engine side	Approx. 1 100 ml (1.2/1.0 US/Imp qt)	—

INJECTOR + FUEL PUMP + FUEL PRESSURE REGULATOR

ITEM	STANDARD	NOTE
Injector resistance	11.5 – 12.5 Ω at 20 °C (68 °F)	
Fuel pump discharge amount	97.2 ml (3.3/3.4 US/Imp oz) or more/10 sec.	
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm², 43 psi)	

FI SENSORS

ITEM	STANDARD		NOTE
CKP sensor resistance	150 – 230 Ω		
CKP sensor peak voltage	1.5 V or more		When cranking
IAP sensor input voltage	4.5 – 5.5 V		
IAP sensor output voltage	Approx. 2.6 V at idle speed		
TP sensor input voltage	4.5 – 5.5 V		
TP sensor output voltage	Closed	Approx. 1.1 V	
	Opened	Approx. 4.4 V	
ECT sensor input voltage	4.5 – 5.5 V		
ECT sensor resistance	Approx. 2.45 kΩ at 20 °C (68 °F)		
IAT sensor input voltage	4.5 – 5.5 V		
IAT sensor resistance	Approx. 2.45 kΩ at 20 °C (68 °F)		
TO sensor resistance	25.0 – 26.0 kΩ		
TO sensor voltage	Normal	0.4 – 1.4 V	
	Leaning	3.7 – 4.4 V	When leaning 45°
GP switch voltage	0.6 V or more		From 1st to Top
GP switch resistance	Approx. 500 Ω or more		
Injector voltage	Battery voltage		
Ignition coil primary peak voltage	80 V or more		When cranking
HO2 sensor output voltage	0.4 V or less at idle speed		
	0.6 V or more at 5 000 r/min		
HO2 sensor heater resistance	6.7 – 9.5 Ω at 23 °C (73 °F)		
PAIR control solenoid valve resistance	18 – 22 Ω at 20 °C (68 °F)		
EVAP purge control solenoid valve resistance	Approx. 32 Ω at 20 – 30 °C (68 – 86 °F)		
ISC valve resistance	Approx. 20 Ω at 20 °C (68 °F)		

THROTTLE BODY

ITEM	STANDARD / SPECIFICATION
Bore size	26 mm (1.02 in)
I.D. No.	48H1
Idle r/min	1 400 ± 100 r/min
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)

ELECTRICAL

Unit: mm (in)

ITEM		STANDARD / SPECIFICATION		NOTE
Firing order		1.2		
Spark plug		Type	NGK: CR7E DENSO: U22ESR-N	
		Gap	0.7 – 0.8 (0.028 – 0.031)	
Spark performance		Over 8 (0.3) at 1 atm.		
CKP sensor resistance		150 – 230 Ω		
CKP sensor peak voltage		1.5 V or more		
Ignition coil resistance		Primary	3.4 – 4.6 Ω	Terminal – Terminal
		Secondary	11.05 – 14.95 kΩ	Plug cap – Terminal
Ignition coil primary peak voltage		80 V or more		
Generator coil resistance		0.2 – 0.9 Ω		
Generator no-load voltage (When engine is cold)		60 V (AC) or more at 5 000 r/min		
Starter motor brush length		Standard	10 (0.39)	
		Limit	6.5 (0.26)	
Regulated voltage		14.0 – 15.5 V at 5 000 r/min		
Starter relay resistance		3 – 6 Ω		
GP switch voltage		0.6 V or more (From 1st to Top)		
Battery	Type designation	YTX9-BS		
	Capacity	12 V 28.8 kC (8 Ah)/10 HR		
Fuse size	Headlight	15 A		
	Signal	10 A		
	Ignition	10 A		
	Fuel	10 A		
	Main	30 A		

WATTAGE

Unit: W

ITEM		SPECIFICATION
Headlight	HI	60
	LO	55
Position		5 × 2
Brake/Tail light		21/5
Turn signal light		10 × 4
License plate light		5
Combination meter light		LED
Turn signal indicator light		LED
High beam indicator light		LED
Neutral indicator light		LED
FI indicator light		LED
Oil pressure indicator light		LED
Engine coolant temp. indicator light		LED
Engine rpm indicator light		LED

BRAKE + WHEEL

Unit: mm (in)

ITEM	STANDARD / SPECIFICATION			LIMIT
Rear brake pedal height	38 – 48 (1.5 – 1.9)			—
Brake disc thickness	Front	4.8 – 5.2 (0.189 – 0.205)		4.5 (0.18)
	Rear	4.3 – 4.7 (0.169 – 0.185)		4.0 (0.16)
Brake disc runout	—			0.30 (0.012)
Brake master cylinder bore & piston diam	Front	Approx 11.0 (0.43)		—
	Rear	Approx 14.0 (0.55)		—
Brake caliper cylinder bore & piston diam	Front	Leading	Approx 27.0 (1.06)	—
		Trailing		
	Rear	Approx 38.2 (1.50)		—
Brake fluid type	DOT 4			—
Wheel rim runout	Axial	—		2.0 (0.08)
	Radial	—		2.0 (0.08)
Wheel rim size	Front	17 M/C × MT 3.00		—
	Rear	17 M/C × MT 4.00		—
Wheel axle runout	Front	—		0.25 (0.010)
	Rear	—		0.25 (0.010)

TIRE

ITEM	STANDARD / SPECIFICATION		LIMIT
Cold inflation tire pressure (Solo riding)	Front	250 kPa (2.50 kgf/cm², 36 psi)	—
	Rear	250 kPa (2.50 kgf/cm², 36 psi)	—
Cold inflation tire pressure (Dual riding)	Front	250 kPa (2.50 kgf/cm², 36 psi)	—
	Rear	250 kPa (2.50 kgf/cm², 36 psi)	—
Tire size	Front	110/80-17 M/C 57H	—
	Rear	140/70-17 M/C 66H	—
Tire type	Front	IRC RX-01F D	—
	Rear	IRC RX-01R	—
Tire tread depth (Recommended depth)	Front	—	1.6 mm (0.06 in)
	Rear	—	2.0 mm (0.08 in)

SUSPENSION

Unit: mm (in)

ITEM	STANDARD / SPECIFICATION	LIMIT
Front fork stroke	120 (4.72)	—
Front fork spring free length	291 (11.5)	285 (11.2)
Front fork oil level (without spring, outer tube fully compressed)	136 (5.4)	—
Front fork oil type	SUZUKI FORK OIL G-10 or equivalent	—
Front fork oil capacity (each leg)	338 ml (11.4/11.9 US/Imp oz)	—
Front fork inner tube O.D.	37 (1.46)	—
Rear shock absorber spring adjuster	3rd position	—
Rear wheel travel	125 (4.9)	—
Swingarm pivot shaft runout	—	0.3 (0.01)

FUEL + OIL

ITEM	SPECIFICATION		NOTE
Fuel type	Use only unleaded gasoline of at least 87 pump octane (R/2 + M/2) or 91 octane or higher rated by the research method. Gasoline containing MTBE (Methyl Tertiary Butyl Ether), less than 10% ethanol, or less than 5% methanol with appropriate cosolvents and corrosion inhibitor is permissible.		P-03, 33
Fuel tank capacity	Including reserve	13 L (3.5/2.9 US/Imp gal)	
	Fuel mark indicator blinking	Approx. 4 L (1.1/0.9 US/Imp gal)	
Engine oil type	SAE 10W-40, API SG or higher with JASO MA		
Engine oil capacity	Change	2.1 L (2.2/1.8 US/Imp qt)	
	Filter change	2.4 L (2.5/2.1 US/Imp qt)	
	Overhaul	2.4 L (2.5/2.1 US/Imp qt)	

TIGHTENING TORQUE
ENGINE

ITEM		N·m	kgf-m	lbf-ft
Cylinder head cover bolt	(Initial)	10	1.0	7.0
	(Final)	14	1.4	10.0
Cylinder head bolt		25	2.5	18.0
Cylinder head cover cap bolt		10	1.0	7.0
Cylinder side bolt		10	1.0	7.0
Primary drive gear nut		70	7.0	50.5
Exhaust pipe bolt		23	2.3	16.5
Exhaust connecting bolt		17	1.7	12.5
Muffler support bolt		23	2.3	16.5
Muffler chamber support bolt		23	2.3	16.5
Muffler front cover screw		10	1.0	7.0
Muffler rear cover stay bolt		10	1.0	7.0
Muffler rear cover bolt		10	1.0	7.0
Muffler body cover screw		10	1.0	7.0
Speed sensor rotor bolt		23	2.3	16.5
Speed sensor bolt		4.5	0.45	3.5
Speed sensor bracket bolt		10	1.0	7.0
Engine sprocket nut		120	12.0	87.0
Engine mounting nut		55	5.5	40.0
Engine mounting bracket nut		60	6.0	43.5
Crank balancer bolt		50	5.0	36.0
Valve clearance adjuster lock-nut		10	1.0	7.0
Camshaft sprocket bolt		15	1.5	11.0
Spark plug		11	1.1	8.0
Throttle cable nut		4.5	0.45	3.0
Camshaft journal holder bolt		10	1.0	7.0
Cam chain tension adjuster cap bolt		8	0.8	6.0
Cam chain tension adjuster mounting bolt		10	1.0	7.0
Cam chain tensioner bolt		10	1.0	7.0
PAIR reed valve cover bolt		10	1.0	7.0
Generator cover plug		11	1.1	8.0
Clutch cover bolt		10	1.0	7.0
Clutch sleeve hub nut		50	5.0	36.0
Clutch release adjuster lock-nut		5.5	0.55	4.0
Clutch cable adjuster lock-nut		4.5	0.45	3.0
Valve timing inspection plug		21	2.1	15.0
Starter clutch bolt		26	2.6	19.0
Generator cover bolt		10	1.0	7.0
Generator rotor bolt		130	13.0	94.0
Generator stator set bolt		11	1.1	8.0
Gearshift cam stopper bolt		10	1.0	7.0
Gearshift cam stopper plate bolt		11	1.1	8.0

ITEM			N·m	kgf-m	lbf-ft
Shift cam bearing retainer screw			10	1.0	7.0
Oil pressure switch			13	1.3	9.5
Oil filter			20	2.0	14.5
Oil pressure switch lead wire bolt			1.5	0.15	1.0
Gearshift arm stopper			19	1.9	13.5
Gearshift fork shaft plug			25	2.5	18.0
Oil pressure regulator			28	2.8	20.0
Oil filter union bolt			15	1.5	11.0
Oil separator plate bolt			10	1.0	7.0
Engine sprocket cover bolt			10	1.0	7.0
Ignition coil nut			6.5	0.65	4.5
Gearshift lever shaft			40	4.0	29.0
Gearshift link arm bolt			10	1.0	7.0
Crankshaft journal bolt	(M: 8)	(Initial)	15	1.5	11.0
		(Final)	26	2.6	19.0
Crankcase bolt	(M: 6)		11	1.1	8.0
	(M: 8)		26	2.6	19.0
Oil gallery plug	Cylinder head		10	1.0	7.0
	Lower crankcase		25	2.5	18.0
Oil drain plug			23	2.3	16.5
Oil pump mounting bolt			10	1.0	7.0
Conrod cap bolt	(Initial)		15	1.5	11.0
	(Final)		90° (1/4 turn)		
Breather cover bolt			10	1.0	7.0
Oil strainer bolt			10	1.0	7.0
Oil pan bolt			10	1.0	7.0
Starter motor mounting bolt			10	1.0	7.0
Starter motor lead wire bolt			2.7	0.27	2.0
Headlight mounting screw			6	0.6	4.5

FI SYSTEM AND INTAKE AIR SYSTEM

ITEM	N·m	kgf-m	lbf-ft
GP switch mounting bolt	6.5	0.65	4.5
CKP sensor mounting bolt	5.5	0.55	4.0
Fuel delivery pipe mounting screw	5	0.5	3.5
Fuel pump mounting bolt	10	1.0	7.0
HO2 sensor	25	2.5	18.0
EVAP canister bracket mounting bolt	10	1.0	7.0
EVAP canister holder screw	5.5	0.55	4.0
EVAP system purge control solenoid valve mounting nut	7	0.7	5.0
Air cleaner upper mounting bolt	10	1.0	7.0
Air cleaner lower mounting bolt	5.5	0.55	4.0

COOLING SYSTEM

ITEM	N·m	kgf-m	lbf-ft
Impeller securing bolt	8	0.8	6.0
Water pump cover screw	5.5	0.55	4.0
Water pump mounting bolt	10	1.0	7.0
Water pump air bleeder bolt	6	0.6	4.5
Water jacket plug	25	2.5	18.0
Cooling fan motor assembly mounting bolt	7	0.7	5.0
Cooling fan mounting nut	1.1	0.11	1.0
ECT sensor	18	1.8	13.0
Cooling fan motor mounting screw	2.7	0.27	2.0
Radiator assembly mounting bolt	10	1.0	7.0
Reservoir tank mounting bolt	6	0.6	4.5
Reservoir tank bracket mounting bolt	10	1.0	7.0
Cylinder head water outlet pipe bolt	10	1.0	7.0
Water hose clamp screw	1.5	0.15	1.0
Thermostat connector cap bolt	10	1.0	7.0

CHASSIS

ITEM	N·m	kgf-m	lbf-ft
Steering stem head nut	65	6.5	47.0
Steering stem nut	23 N·m (2.3 kgf-m, 16.5 lbf-ft) then turn counterclockwise 0 – 1/4		
Front fork upper clamp bolt	23	2.3	16.5
Front fork lower clamp bolt	33	3.3	24.0
Front fork cap bolt	23	2.3	16.5
Front fork damper rod bolt	30	3.0	21.5
Front axle	65	6.5	47.0
Front axle pinch bolt	23	2.3	16.5
Handlebar clamp bolt	16	1.6	11.5
Handlebar holder bolt	23	2.3	16.5

ITEM	N·m	kgf-m	lbf-ft
Front brake master cylinder holder bolt	10	1.0	7.0
Front brake caliper mounting bolt	26	2.6	19.0
Front brake caliper sliding pin A	23	2.3	16.5
Front brake caliper sliding pin B	13	1.3	9.5
Front brake pad mounting pin	18	1.8	13.0
Front brake pad pin plug	2.5	0.25	2.0
Brake hose union bolt	23	2.3	16.5
Front brake lever pivot bolt	1	0.1	0.5
Front brake lever pivot bolt lock-nut	6	0.6	4.5
Air bleeder valve (Front and Rear brake caliper)	6	0.6	4.5
Brake disc bolt (Front)	18	1.8	13.0
Brake disc bolt (Rear)	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 pad mounting pin	18	1.8	13.0
Rear brake pad pin plug	2.5	0.25	2.0
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake master cylinder rod lock-nut	18	1.8	13.0
Front footrest bracket mounting bolt	23	2.3	16.5
Swingarm pivot nut	65	6.5	47.0
Rear shock absorber mounting nut (Upper)	50	5.0	36.0
Rear shock absorber mounting nut (Lower)	84	8.4	61.0
Rear axle nut	65	6.5	47.0
Rear sprocket nut	49	4.9	35.5
Side-stand nut	40	4.0	29.0
Side-stand bolt	10	1.0	7.0
Frame down tube bolt/nut	50	5.0	36.0
Rear turn signal light mounting nut	7	0.7	5.0
Front reflector bolt	4.5	0.45	3.5
Front reflex reflector	1.8	0.18	1.5
Clutch lever holder bolt	10	1.0	7.0
Clutch lever pivot nut	6.5	0.65	4.5
Bank sensor bolt	18	1.8	13.0
Center stand nut	60	6.0	43.5