

Features & Specifications

2016 Bandit 1250S ABS



GSF1250SAL6

YYG: Candy Daring Red

Introduction

- You can't break the laws of physics, but the 2016 Suzuki Bandit 1250S ABS shows that you sure can bend them. Its Suzuki fuel-injected four-cylinder engine offers thrilling acceleration in every gear, with a rush of high-rpm performance. For crisp, precise handling on twisty roads, it has balanced suspension systems front and rear. It also features a technically advanced Antilock Braking System (ABS)* that monitors wheel speed, and matches stopping power to available traction.

Engine Features

- Powering the Bandit S is a 1,255cc liquid-cooled, fuel-injected, DOHC, four-cylinder engine delivering a wide spread of power for relaxed cruising or sport riding.
- Engineered for smooth operation, the engine has an effective secondary balancer shaft.
- Power is transmitted through a 6-speed transmission using gear ratios chosen for impressive accelerations as well as smooth highway use. Clutch operation is low effort and smooth, with low maintenance, thanks to a hydraulic clutch actuation system.
- The state-of-the-art Suzuki Dual Throttle Valve (SDTV) digital closed-loop EFI system also delivers improved mileage and reduced emissions.
- The 4-into-2-into-1 exhaust system is built of steel and stainless steel and is equipped with a catalyzer and HO2 sensor. The large silencer controls sounds while permitting excellent flow to maximize torque and overall engine power.
- To shed heat from the high torque, large displacement engine, a high capacity radiator is employed. Cooling air is directed to the radiator via the front fender and directed away by the outer fairing shroud.
- Additional engine cooling comes from a liquid-cooled oil cooler, similar to the type used on the GSX-R750.

Chassis Features

- The refined half-fairing wraps around the radiator sides and is vented just below the headlight. In addition to sharpening the Bandit's looks, the fairing improves aerodynamics providing riders with great wind protection and riding comfort.
- Hollow, three-spoke cast wheels feature 1270/70ZR17 and 180/55ZR17 radial tires.
- The strong, double-cradle steel frame supports a stout set of SHOWA 43mm forks with adjustable spring preload.
- The single rear shock that works with a progressive, rising rate link system designed to respond smoothly to road irregularities. Rear shock rebound damping and spring preload are adjustable.
- Stopping power is provided by fully floating 310mm-diameter dual front brake discs with 4 piston calipers and a 240mm diameter rear disc brake with a single piston caliper.
- The standard digital ABS monitors wheel speed, matching stopping power to available traction*.
- The analog tachometer on the left side of the instrument panel incorporates FI and ABS indicators.
- The LCD panel on the right side displays a digital speedometer and odometer, dual trip meters, clock, and a fuel gauge.
- The height of the comfortably contoured seat can be adjusted up or down by 20mm (0.78 in.).
- The passenger grab bar incorporates cargo cord posts.



GSF1250SAL6

YVB: Glass Sparkle Black

Additional Features

- A convenient center stand is standard.
- A variety of Genuine Suzuki Accessories for Bandit owners are available including a large selection of Suzuki logo apparel.
- 12-month limited warranty
- For more details, please visit www.suzukicycles.com.

** Depending on road surface conditions, such as wet, loose, or uneven roads, braking distance for an ABS-equipped vehicle may be longer than for a vehicle not equipped with ABS. ABS cannot prevent wheel skidding caused by braking while cornering. Please ride carefully and do not overly rely on ABS.*

Specifications GSF1250SAL6

E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length.....	2130 mm (83.9in)
Overall width.....	790 mm (31.1 in)
Overall height.....	1235 mm (48.6 in)
Wheelbase.....	1485 mm (58.5 in)
Ground clearance.....	135 mm (5.3 in)
Seat height.....	805/825 mm (31.7/32.5 in)..... Low/High
Curb mass.....	254 kg (560 lbs)

ENGINE

Type.....	4-stroke, liquid-cooled, DOHC
Number of cylinders.....	4
Bore.....	79.0 mm (3.110 in)
Stroke.....	64.0 mm (2.520 in)
Displacement.....	1255 cm ³ (76.6 cu. in)
Compression ratio.....	10.5 : 1
Fuel system.....	Fuel injection
Air cleaner.....	Non-woven fabric element
Starter system.....	Electric
Lubrication system.....	Wet sump
Idle speed.....	1200 ± 100 r/min

DRIVE TRAIN

Clutch.....	Wet multi-plate type
Transmission.....	6-speed constant mesh
Gearshift pattern.....	1-down, 5-up
Primary reduction ratio.....	1.537 (83/54)
Gear ratios, Low.....	3.076 (40/13)
2nd.....	2.058 (35/17)
3rd.....	1.550 (31/20)
4th.....	1.304 (30/23)
5th.....	1.160 (29/25)
Top.....	1.071 (30/28)
Final reduction ratio.....	2.388 (43/18)
Drive chain.....	RK GB50GSVZ3, 118 links

CHASSIS

Front suspension.....	Telescopic, coil spring, oil damped
Rear suspension.....	Link type, coil spring, oil damped
Front fork stroke.....	130 mm (5.1 in)
Rear wheel travel.....	136 mm (5.4 in)
Caster.....	25° 20'
Trail.....	104 mm (4.10 in)
Steering angle.....	35° (right & left)
Turning radius.....	2.8 m (9.2 ft)
Front brake.....	Disc brake, twin
Rear brake.....	Disc brake
Front tire.....	120/70ZR17M/C (58W), tubeless
Rear tire.....	180/55ZR17M/C (73W), tubeless

Specifications GSF1250SAL6

E-03: USA, E-33: California

ELECTRICAL

Ignition type.....	Electronic ignition (Transistorized)
Ignition timing.....	8° B.T.D.C. at 1200 r/min
Spark plug.....	NGK CR7E or DENSO U22ESR-N
Battery.....	12V 36 kC (10 Ah)/10 HR
Generator.....	Three-phase A.C. generator
Main fuse.....	30A
Fuse.....	10/10/15/15/15/10/20/15A
Headlight.....	12V 55W (H7) × 2
Position light.....	12V 5W × 2
Brake/Tail light.....	12V 21/5W
Turn signal light.....	12V 21W
License plate light.....	12V 5W
Speedometer light.....	LED
Tachometer light.....	LED
Neutral indicator light.....	LED
High beam indicator light.....	LED
Turn signal indicator light.....	LED
Oil pressure indicator light.....	LED
Coolant temperature indicator light.....	LED
FI indicator light.....	LED
ABS indicator light.....	LED

CAPACITIES

Fuel tank.....	19.0 L (5.0/4.2 US/Imp gal)
Engine oil, oil change.....	3000 ml (3.2/2.6 US/Imp qt)
with filter change.....	3500 ml (3.7/3.1 US/Imp qt)
overhaul.....	3700 ml (3.9/3.3 US/Imp qt)
Coolant.....	3.3 L (3.5/2.9 US/Imp qt)

Service Data GSF1250SAL6

E-03: USA, E-33: California

Valve + Guide

Unit: mm (in)

Item	Standard		Limit
Valve diam.	IN.	31 (1.22)	—
	EX.	27 (1.06)	—
Valve 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 clearance	IN.	0.010 – 0.037 (0.0004 – 0.0015)	—
	EX.	0.030 – 0.057 (0.0012 – 0.0022)	—
Valve stem deflection	IN. & EX.	—	0.35 (0.014)
Valve guide I.D.	IN. & EX.	4.500 – 4.512 (0.1772 – 0.1776)	—
Valve stem O.D.	IN.	4.475 – 4.490 (0.1762 – 0.1768)	—
	EX.	4.455 – 4.470 (0.1754 – 0.1760)	—
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.	Approx. 147 N (15.0 kgf, 33.1 lbs) at length 36.0 mm (1.42 in)	—

Camshaft + Cylinder Head

Unit: mm (in)

Item	Standard		Limit
Cam height	IN.	35.28 – 35.33 (1.389 – 1.391)	34.98 (1.377)
	EX.	34.18 – 34.23 (1.346 – 1.348)	33.88 (1.334)
Camshaft journal oil clearance	IN. & EX.	0.032 – 0.066 (0.0013 – 0.0026)	0.150 (0.0059)
Camshaft journal holder I.D.	IN. & EX.	24.012 – 24.025 (0.9454 – 0.9459)	—
Camshaft journal O.D.	IN. & EX.	23.959 – 23.980 (0.9433 – 0.9441)	—
Camshaft runout	IN. & EX.	—	0.10 (0.004)
Cam chain pin (at arrow "3")		16th pin	—
Cylinder head distortion		—	0.20 (0.008)

Cylinder + Piston + Piston Ring

Unit: mm (in)

Item	Standard			Limit
Compression pressure	1 300 – 1 700 kPa (13 – 17 kgf/cm ² , 185 – 242 psi)			1 000 kPa (10 kgf/cm ² , 142 psi)
Compression pressure difference	—			200 kPa (2 kgf/cm ² , 28 psi)
Piston-to-cylinder clearance	0.025 – 0.035 (0.0010 – 0.0014)			0.120 (0.0047)
Cylinder bore	79.000 – 79.015 (3.1102 – 3.1108)			Nicks or Scratches
Piston diam.	78.970 – 78.985 (3.1090 – 3.1096) Measure 15 mm (0.6 in) from the skirt end.			78.880 (3.1055)
Cylinder distortion	—			0.20 (0.008)
Piston ring free end gap	1st	IN	Approx. 9 (0.35)	7.2 (0.28)
	2nd	N	Approx. 9.5 (0.37)	7.6 (0.30)
Piston ring end gap	1st	IN	0.06 – 0.21 (0.002 – 0.008)	0.5 (0.020)
	2nd	N	0.06 – 0.21 (0.002 – 0.008)	0.5 (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 (0.040 – 0.041)		—
	2nd	0.81 – 0.83 (0.032 – 0.033)		—
	Oil	1.51 – 1.53 (0.059 – 0.060)		—
Piston ring thickness	1st	0.97 – 0.99 (0.038 – 0.039)		—
	2nd	0.77 – 0.79 (0.030 – 0.031)		—
Piston pin bore I.D.	18.002 – 18.008 (0.7087 – 0.7090)			18.030 (0.7098)
Piston pin O.D.	17.996 – 18.000 (0.7085 – 0.7087)			17.980 (0.7079)

Conrod + Crankshaft

Unit: mm (in)

Item	Standard			Limit
Conrod small end I.D.	18.010 – 18.018 (0.7091 – 0.7094)			18.040 (0.7102)
Conrod big end side clearance	0.10 – 0.20 (0.004 – 0.008)			0.30 (0.012)
Conrod big end width	20.95 – 21.00 (0.825 – 0.827)			—
Crank pin width	21.10 – 21.15 (0.831 – 0.833)			—
Conrod big end oil clearance	0.032 – 0.056 (0.0013 – 0.0022)			0.080 (0.0031)
Crank pin O.D.	37.976 – 38.000 (1.4951 – 1.4961)			—
Crankshaft journal oil clearance	0.016 – 0.040 (0.0006 – 0.0016)			0.080 (0.0031)
Crankshaft journal O.D.	33.976 – 34.000 (1.3376 – 1.3386)			—
Crankshaft thrust clearance	0.055 – 0.110 (0.0022 – 0.0043)			—
Crankshaft thrust bearing thickness	Right side	2.425 – 2.450 (0.0955 – 0.0965)		—
	Left side	2.350 – 2.500 (0.0925 – 0.0984)		—
Crankshaft runout	—			0.05 (0.002)

Oil Pump

Item	Standard	Limit
Oil pressure (at 60 °C, 140 °F)	100 – 400 kPa (1.0 – 4.0 kgf/cm ² , 14 – 57 psi) at 3 000 r/min	—

Clutch

Unit: mm (in)

Item	Standard		Limit
Clutch drive plate thickness	No.1, 2, 3	3.72 – 3.88 (0.146 – 0.153)	3.42 (0.135)
Clutch drive plate claw width	No.1, 2, 3	13.9 – 14.0 (0.547 – 0.551)	13.1 (0.52)
Clutch driven plate distortion	—		0.10 (0.004)
Clutch spring free length	65.0 (2.56)		61.8 (2.43)
Clutch master cylinder bore	14.000 – 14.043 (0.5511 – 0.5529)		—
Clutch master cylinder piston diam.	13.957 – 13.984 (0.5495 – 0.5506)		—
Clutch release cylinder bore	38.18 – 38.23 (1.503 – 1.505)		—
Clutch release cylinder piston diam.	38.08 – 38.13 (1.500 – 1.501)		—
Clutch fluid type	Brake fluid DOT 4		—

Transmission + Drive Chain

Unit: mm (in) Except ratio

Item	Standard		Limit
Primary reduction ratio	1.537 (83/54)		—
Final reduction ratio	2.388 (43/18)		—
Gear ratios	1st	3.076 (40/13)	—
	2nd	2.058 (35/17)	—
	3rd	1.550 (31/20)	—
	4th	1.304 (30/23)	—
	5th	1.160 (29/25)	—
	Top	1.071 (30/28)	—
Shift fork to groove clearance	No.1, 2, 3	0.1 – 0.3 (0.004 – 0.012)	0.5 (0.02)
Shift fork groove width	No.1, 2, 3	5.0 – 5.1 (0.197 – 0.201)	—
Shift fork thickness	4.8 – 4.9 (0.189 – 0.193)		—
Drive chain	Type	RK GB50GSVZ3	—
	Links	118 links	—
	20-pitch length	—	319.4 (12.75)
Drive chain slack (on center stand)	20 – 30 (0.8 – 1.2)		—
Gearshift lever height	45 – 55 (1.8 – 2.2)		—

Thermostat + Radiator + Fan + Coolant

Item	Standard/Specification		Note
Thermostat valve opening temperature	Approx. 82 °C (180 °F)		—
Thermostat valve lift	8 mm (0.31 in) and over at 95 °C (203 °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/cm ² , 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	Reservoir tank side	Approx. 250 ml (0.3/0.2 US/Imp qt)	—
	Engine side	Approx. 3 000 ml (3.2/2.6 US/Imp qt)	—

Injector + Fuel Pump + Fuel Pressure Regulator

Item	Specification	Note
Injector resistance	11 – 13 Ω at 20 °C (68 °F)	
Fuel pump discharge amount	166 ml (5.6/5.8 US/Imp oz) and more/10 sec.	
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm ² , 43 psi)	

FI Sensors + Secondary Throttle Valve Actuator

Item	Standard/Specification	Note
CKP sensor resistance	90 – 150 Ω	
CKP sensor peak voltage	2.0 V and more	When cranking
IAP sensor input voltage (No.1)	4.5 – 5.5 V	
IAP sensor output voltage (No.1)	Approx. 2.7 V at idle speed	
IAP sensor input voltage (No.2)	4.5 – 5.5 V	
IAP sensor output voltage (No.2)	2.0 – 3.0 V at idle speed	
TP sensor input voltage	4.5 – 5.5 V	
TP sensor output voltage	Closed	Approx. 1.1 V
	Opened	Approx. 4.3 V
ECT sensor input voltage	4.5 – 5.5 V	
ECT sensor output voltage	0.15 – 4.85 V	
ECT sensor resistance	Approx. 2.45 k Ω at 20 °C (68 °F)	
IAT sensor input voltage	4.5 – 5.5 V	
IAT sensor output voltage	Approx. 2.4 V at 20 °C (68 °F)	
IAT sensor resistance	Approx. 2.56 k Ω at 20 °C (68 °F)	
TO sensor resistance	16.5 – 22.3 k Ω	
TO sensor voltage	Normal	0.4 – 1.4 V
	Leaning	3.7 – 4.4 V
		When leaning 65°
GP switch voltage	0.6 V and more	From 1st to Top
Injector voltage	Battery voltage	
Ignition coil primary peak voltage	80 V and more	When cranking
STP sensor input voltage	4.5 – 5.5 V	
STP sensor output voltage	Closed	Approx. 0.6 V
	Opened	Approx. 4.5 V
STV actuator resistance	Approx. 7.0 Ω	
ISC valve resistance	Approx. 20 Ω at 20 °C (68 °F)	
HO2 sensor resistance	Approx. 8 Ω at 23 °C (73 °F)	
HO2 sensor output voltage		0.3 V and less at idle speed
		0.6 V and more at 3 000 r/min
PAIR control solenoid valve resistance	18 – 22 Ω at 20 – 30 °C (68 – 86 °F)	
EVAP purge control valve	Approx. 32 Ω at 20 °C (68 °F)	

Throttle Body

Item	Specification
Bore size	36 mm
I.D. No.	18H0
Idle r/min.	1 200 \pm 100 r/min.
Fast idle r/min.	1 200 – 2 000 r/min. (When cold engine)
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)

Electrical

Unit: mm

Item		Specification	Note
Firing order		1 · 2 · 4 · 3	
Spark plug	Type	NGK: CR7E DENSO: U22ESR-N	
	Gap	0.7 – 0.8 (0.028 – 0.031 in)	
Spark performance		Over 8 (0.3 in) at 1 atm.	
CKP sensor resistance		90 – 150 Ω	
CKP sensor peak voltage		2.0 V and more	When cranking
Ignition coil resistance	Primary	1.1 – 1.9 Ω	Terminal – Terminal Plug cap – Terminal
	Secondary	10.8 – 16.2 kΩ	
Ignition coil primary peak voltage		80 V and more	
Generator coil resistance		0.2 – 0.8 Ω	
Generator maximum output		Approx. 400 W at 5 000 r/min	
Generator no-load voltage (When engine is cold)		60 V (AC) and more at 5 000 r/min	
Regulated voltage		14.0 – 15.5 V at 5 000 r/min	
Starter motor brush length	Standard	12.0 (0.47 in)	
	Limit	6.5 (0.26 in)	
Starter relay resistance		3 – 6 Ω	
Battery	Type designation	FT12A-BS	
	Capacity	12 V 36 kC (10 Ah)/10 HR	
	Standard electrolyte S.G.	1.330 at 20 °C (68 °F)	
Fuse size	Headlight	HI	10 A
		LO	10 A
	Fuel	10 A	
	Ignition	15 A	
	Signal	15 A	
	Fan	15 A	
	Main	30 A	
	ABS motor	20 A	
ABS valve	15 A		

Wattage

Unit: W

Item		Specification
Headlight	HI	55
	LO	55
Position/Parking light		5 x 2
Brake/Tail light		21/5
Turn signal light		21 x 4
License plate light		5
Speedometer light		LED
Tachometer light		LED
Turn signal indicator light		LED
High beam indicator light		LED
Neutral position indicator light		LED
Oil pressure indicator light		LED
FI indicator light		LED
Engine coolant temp. indicator light		LED
ABS indicator light		LED

Brake + Wheel

Unit: mm (in)

Item	Standard		Limit	
Rear brake pedal height	50 – 60 (2.0 – 2.4)		—	
Brake disc thickness	Front	4.8 – 5.2 (0.189 – 0.205)	4.5 (0.18)	
	Rear	4.8 – 5.2 (0.189 – 0.205)	4.5 (0.18)	
Brake disc runout	—		0.30 (0.012)	
Master cylinder bore	Front	14.000 – 14.043 (0.5512 – 0.5529)	—	
	Rear	14.000 – 14.043 (0.5512 – 0.5529)	—	
Master cylinder piston diam.	Front	13.957 – 13.984 (0.5495 – 0.5506)	—	
	Rear	13.957 – 13.984 (0.5495 – 0.5506)	—	
Brake caliper cylinder bore	Front	Leading	27.050 – 27.126 (1.0650 – 1.0680)	—
		Trailing	30.280 – 30.356 (1.1921 – 1.1951)	—
	Rear	38.180 – 38.230 (1.5031 – 1.5051)		—
Brake caliper piston diam.	Front	Leading	26.920 – 26.970 (1.0598 – 1.0618)	—
		Trailing	30.150 – 30.200 (1.1870 – 1.1890)	—
	Rear	38.080 – 38.130 (1.4992 – 1.5012)		—
Brake fluid type	DOT 4		—	
Wheel rim runout	Axial	—	2.0 (0.08)	
	Radial	—	2.0 (0.08)	
Wheel axle runout	Front	—	0.25 (0.010)	
	Rear	—	0.25 (0.010)	
Wheel rim size	Front	17 M/C x MT3.50	—	
	Rear	17 M/C x MT5.50	—	

Tire

Item	Standard		Limit
Cold inflation tire pressure (Solo riding)	Front	250 kPa (2.50 kgf/cm ² , 36 psi)	—
	Rear	290 kPa (2.90 kgf/cm ² , 42 psi)	—
Cold inflation tire pressure (Dual riding)	Front	250 kPa (2.50 kgf/cm ² , 36 psi)	—
	Rear	290 kPa (2.90 kgf/cm ² , 42 psi)	—
Tire size	Front	120/70 ZR17 M/C (58 W)	—
	Rear	180/55 ZR17 M/C (73 W)	—
Tire type	Front	DUNLOP D218FT	—
	Rear	DUNLOP D218N	—
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		Limit
Front fork stroke	130 (5.1)		—
Front fork inner tube O.D.	43 (1.7)		—
Front fork spring free length	390.4 (15.37)		382 (15.0)
Front fork oil level (Without spring, outer tube fully compressed)	144 (5.7)		—
Front fork oil type	SUZUKI FORK OIL SS-08 or an equivalent fork oil		—
Front fork oil capacity (Each leg)	471 ml (15.9/16.6 US/Imp oz)		—
Front fork spring adjuster	3rd groove from top		—
Rear shock absorber spring adjuster	4th position		—
Rear shock absorber damping force adjuster	Rebound	1-1/4 turns out from stiffest position	—
Rear wheel travel	136 (5.4)		—
Swingarm pivot shaft runout	—		0.3 (0.01)

Fuel + Oil

Item	Specification		Note
Fuel type	Gasoline used should be graded 91 octane or higher. An unleaded gasoline type is recommended.		
Fuel tank capacity	Including reserve	19 L (5.0/4.2 US/lmp gal)	
Engine oil type	SAE 10 W-40, API SF/SG or SH/SJ with JASO MA		
Engine oil capacity	Change	3 000 ml (3.2/2.6 US/lmp qt)	
	Filter change	3 500 ml (3.7/3.1 US/lmp qt)	
	Overhaul	3 700 ml (3.9/3.3 US/lmp qt)	

Tightening Torque List

Engine

Item		N·m	kgf·m	lbf·ft	
Exhaust pipe bolt		23	2.3	16.5	
Exhaust pipe mounting bolt		23	2.3	16.5	
Muffler connecting bolt		23	2.3	16.5	
Muffler mounting nut		26	2.6	19.0	
Speed sensor rotor bolt		25	2.5	18.0	
Speed sensor bolt		6.5	0.65	4.7	
Engine sprocket nut		115	11.5	83.0	
Engine mounting nut	Front upper	55	5.5	40.0	
	Rear upper	88	8.8	63.5	
	Rear lower	88	8.8	63.5	
Engine mounting bolt	Center lower	47	4.7	34.0	
Engine mounting No.1 bracket bolt		23	2.3	16.5	
Engine mounting No.2 bracket bolt		23	2.3	16.5	
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	
Oil pipe mounting bolt		10	1.0	7.0	
Camshaft sprocket bolt	Initial	16	1.6	11.5	
	Final	25	2.5	18.0	
Cam chain tension adjuster cap bolt		23	2.3	16.6	
Cam chain tension adjuster mounting bolt		10	1.0	7.0	
Cylinder head bolt	[L: 175]	Initial	25	2.5	18.0
		Final	42	4.2	30.5
	[L: 65]	10	1.0	7.0	
Water jacket plug		30	3.0	21.5	
Water inlet connector bolt		10	1.0	7.0	
Balancer shaft arm bolt		10	1.0	7.0	
Balancer shaft mounting bolt		10	1.0	7.0	
PAIR reed valve cover bolt		11	1.1	8.0	
Clutch sleeve hub nut		150	15.0	108.5	
Clutch spring set bolt		10	1.0	7.0	
Starter clutch bolt		25	2.5	18.0	
Generator rotor bolt		120	12.0	87.0	
Generator stator set bolt		11	1.1	8.0	
Gearshift cam stopper bolt		10	1.0	7.0	
Gearshift cam stopper plate bolt		13	1.3	9.5	
Gearshift arm stopper		19	1.9	13.5	
Gearshift lever bolt		40	4.0	29.0	
Gearshift shaft end bolt		10	1.0	7.0	
Oil pressure switch		14	1.4	10.0	
Oil pressure switch lead wire bolt		1.5	0.15	1.1	

Item			N·m	kgf-m	lbf-ft
Crankcase bolt	[M6]	(Initial)	6	0.6	4.5
		(Final)	11	1.1	8.0
	[M8]	(Initial)	15	1.5	11.0
		(Final)	26	2.6	19.0
Crankshaft journal bolt	[M9]	(Initial)	18	1.8	13.0
		(Final)	32	3.2	23.0
Oil gallery plug	[M6]		10	1.0	7.0
	[M8]		10	1.0	7.0
	[M12]		15	1.5	11.0
	[M16]		35	3.5	25.5
Oil gallery bolt			10	1.0	7.0
Oil gallery jet			22	2.2	16.0
Oil drain plug			23	2.3	16.5
Piston cooling oil jet bolt			10	1.0	7.0
Oil pump mounting bolt			10	1.0	7.0
Conrod cap bolt	Initial		21	2.1	15.0
	Final		90° (1/4 turn)		
Gearshift fork shaft retainer screw			10	1.0	7.0
Countershaft bearing retainer screw			12	1.2	8.5
Push rod oil seal bolt			12	1.2	8.5
Oil filter			20	2.0	14.5
Oil cooler union bolt			70	7.0	50.5
Starter motor lead wire mounting bolt			5	0.5	3.5
Starter motor housing bolt			5	0.5	3.5

FI System and Intake Air System

Item	N·m	kgf-m	lbf-ft
CKP sensor mounting bolt	11	1.1	8.0
Fuel delivery pipe mounting screw	3.5	0.35	2.5
Fuel pump mounting bolt	10	1.0	7.0
STPS mounting screw	3.5	0.35	2.5
ISC valve mounting screw	3.5	0.35	2.5
GP switch mounting bolt	6.5	0.65	4.7
HO2 sensor	25	2.5	18.0

Cooling System

Item	N·m	kgf-m	lbf-ft
Impeller securing bolt	8	0.8	6.0
Water pump case screw	6	0.6	4.5
Water pump mounting bolt	10	1.0	7.0
Water pump air vent bolt	13	1.3	9.5
Water hose clamp bolt	2	0.2	1.5
ECT sensor	18	1.8	13.0
Thermostat cover 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	Tighten 45 N·m (4.5 kgf-m, 32.5 lb-ft) then turn back 1/2 – 1/4.		
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 damper rod bolt	20	2.0	14.5
Inner rod lock-nut	20	2.0	14.5
Front axle bolt	100	10.0	72.5
Front axle pinch bolt	23	2.3	16.5
Handlebar holder bolt	23	2.3	16.5
Handlebar holder set nut	45	4.5	32.5
Master cylinder mounting bolt (Front brake and Clutch)	10	1.0	7.0
Front brake caliper housing bolt	22	2.2	16.0
Front brake caliper mounting bolt	26	2.6	19.0
Front brake pad mounting pin	16	1.6	11.5
Brake hose union bolt	23	2.3	16.5
Brake pipe flare nut	16	1.6	11.5
Air bleeder valve (Front brake caliper)	7.5	0.75	5.5
Air bleeder valve (Rear brake caliper)	6.0	0.6	4.5
Air bleeder valve (Clutch)	6.0	0.6	4.5
Side-stand bolt	50	5.0	36.0
Side-stand nut	40	4.0	29.0
Side-stand switch mounting bolt	14	1.4	10.0
Rear combination light mounting bolt	2	0.2	1.5
Brake disc bolt (Front and Rear)	23	2.3	16.5
Front footrest bolt	35	3.5	25.5
Swingarm pivot nut	100	10.0	72.5
Rear shock absorber mounting nut (Upper and Lower)	50	5.0	36.0
Cushion lever mounting nut	78	7.8	56.5
Cushion rod mounting nut	78	7.8	56.5
Rear brake caliper mounting bolt	22	2.2	16.0
Rear brake caliper sliding pin	27	2.7	19.5
Rear brake pad mounting pin	18	1.8	13.0
Pad pin plug	2.5	0.25	1.8
Rear brake master cylinder mounting bolt	23	2.3	16.5
Rear brake master cylinder rod lock-nut	18	1.8	13.0
Rear footrest bracket mounting bolt	23	2.3	16.5
Rear axle nut	100	10.0	72.5
Rear sprocket nut	60	6.0	43.5
Frame down tube bolt	50	5.0	36.0
Brake lever pivot bolt	6	0.6	4.5
Brake lever pivot bolt lock-nut	6	0.6	4.5
Clutch lever pivot bolt	6	0.6	4.5
Clutch lever pivot bolt lock-nut	6	0.6	4.5
Licence light mounting bolt	5	0.5	3.5