

Features & Specifications

2016 GSX-R1000 Commemorative Edition



GSX-R1000 Commemorative Edition

AJP: Pearl Vigor Blue / Pearl Glacier White

Special Features

- Special Pearl Vigor Blue / Pearl Glacier White paint scheme pays homage to the original 1986 blue and white GSX-R750.
- Special Pearl Mira Red / Glass Sparkle Black paint scheme pays homage historic Yoshimura endurance racers from the 1980's and the 1987 US-spec GSX-R750
- Unique "30 Years of Performance" GSX-R logo is on the top of the fuel tank.
- The wheel rims have red pin stripes punctuated by "R" logos that highlight the bike's identity.



GSX-R1000 Commemorative Edition

JSP: Pearl Mira Red / Glass Sparkle Black



Key Features

- 999cc, 4-stroke, liquid-cooled, 4-cylinder, DOHC engine
- Twin Lightweight Brembo Monobloc front brake calipers
- Lightweight SHOWA big piston front fork
- Suzuki Drive Mode Selector (S-DMS)

Engine Features

- Potent 999cc, 4-cylinder power-plant, with a bore and stroke of 74.5 x 57.3mm brings enhanced throttle response across the entire RPM range plus a true potential for racetrack dominance.
- The compact engine enables short wheelbase with a long swingarm to create racetrack-capable handling characteristics.
- Lightweight, durable forged pistons are designed using the same Finite Element Method (FEM) and fatigue analysis technology used for MotoGP racing engines.
- Suzuki Composite Electrochemical Material (SCEM)-plated cylinders integrated into the upper crankcase reduce friction and improve heat transfer, durability and ring seal.
- Pentagonal shaped ventilation holes in the sides of each cylinder bore reduce pumping losses due to internal crankcase air-pressure resistance to downward piston movement.
- The camshaft profiles were developed using proven MotoGP racing engine technology to produce power delivery capable of racetrack performance.
- Carefully shaped combustion chambers and a compression ratio of 12.9:1 creates strong low-range and mid-range performance to create a broad torque curve.
- Iridium spark plugs produce more complete combustion and last longer than conventional plugs.
- Eight 12-hole fuel injectors produce a fine fuel spray for more complete combustion, reducing fuel consumption and exhaust emissions.
- An Engine Control Module (ECM) provides state-of-the-art engine management and has enhanced settings to suit the single muffler, resulting in better fuel economy and linear throttle response.
- Suzuki Drive Mode Selector (S-DMS) offers push-button selection of three performance settings to suit riding conditions and personal tastes. The switch is located on the left handlebar.
- The 4-2-1 exhaust system carries a Suzuki Exhaust Tuning (SET) valve to maximize torque and improve throttle response, especially in the low-to-mid RPM range.
- Race-proven back-torque-limiting clutch contributes to smoother down-shifting and corner entry.
- Large, efficient radiator with a curved shape developed on factory team racebikes and a trapezoidal engine oil cooler shed heat while reducing drag.

Chassis Features

- Lightweight and compact twin-spar aluminum-alloy frame is constructed of five cast sections to produce a balance of lightweight and strength.
- The frame is mated with an arched swingarm made of three castings, and a one-piece die-cast rear sub-frame.
- SHOWA Big Piston front forks (BPF) with an endurance-race-proven lightweight design that delivers superb feedback and response.
- Single, link-style rear shock absorber features adjustable rebound damping, spring preload, and both high-speed and low-speed compression damping.
- The dual front disc brakes are equipped with the premier, radial-mount Brembo monobloc calipers grasping 310mm floating brake rotors.
- The rear brake system with single-piston caliper contributes low unsprung weight.
- Three-spoke cast-aluminum-alloy wheels are shod with lightweight, high-grip front and rear tires for sharp handling.
- Electronically controlled steering damper provides lighter steering at slower speeds and more damping force at racetrack and highway speeds.
- Three-way adjustable footpegs, adjustable shift lever and short fuel tank help compose a comfortable riding position.
- Instruments include a silver-ringed analog tachometer with LCD speedometer. LCD readouts include odometer, dual trip meter, reserve trip meter, clock, coolant temperature/oil pressure warning indicator, gear position indicator, lap timer/stopwatch, S-DMS setting indicator and bar-graph indicating the instrument lighting level, or brightness.
- The edgy and clean GSX-R race-inspired styling incorporates fairing and bodywork details aimed at reducing turbulence and drag.
- Distinctive multi-reflector headlight with vertically stacked high and low-beam halogen bulbs is centered between position lights on each side.
- Bright, durable LED taillight, with clear inner lens and red outer lens.
- The front turn signal are integrated into the rear-view mirrors while the rear tail section houses the rear signals.
- Attention to rider comfort and confidence includes a carefully shaped seat with a high-grip cover.
- The wheel rims have pin stripes punctuated by “R” logos that highlight the bike’s identity.



Additional Features

- Stylized Suzuki “S” 3-D emblems on the fuel tank and the fork upper bracket denotes the quality, sophistication and performance legacy of the brand.
- Optional single seat cowl can replace the passenger seat for an even more aggressive look or for use on solo rides, or track days.
- A variety of Genuine Suzuki Accessories for GSX-R owners are available including a large selection of Suzuki logo apparel.
- 12-month limited warranty
- For more details, please visit www.suzukicycles.com.

Specifications GSX-R1000L6

E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length	2045 mm (80.5 in)
Overall width	705 mm (27.8 in)
Overall height	1130 mm (44.5 in)
Wheelbase	1405 mm (55.3 in)
Ground clearance	130 mm (5.1 in)
Seat height	810 mm (31.9 in)
Curb mass	203 kg (448 lbs)

ENGINE

Type	4-stroke, liquid-cooled, DOHC
Number of cylinders	4
Bore	74.5 mm (2.933 in)
Stroke	57.3 mm (2.256 in)
Displacement	999 cm ³ (61.0 cu. in)
Compression ratio	12.9 : 1
Fuel system	Fuel injection
Air cleaner	Paper element
Starter system	Electric
Lubrication system	Wet sump
Idle speed	1150 ± 100 r/min

DRIVE TRAIN

Clutch	Wet multi-plate type
Transmission	6-speed constant mesh
Gearshift pattern	1-down, 5-up
Primary reduction ratio	1.617 (76/47)
Gear ratios, Low	2.562 (41/16)
2nd	2.052 (39/19)
3rd	1.714 (36/21)
4th	1.500 (36/24)
5th	1.360 (34/25)
Top	1.269 (33/26)
Final reduction ratio	2.470 (42/17)
Drive chain	DID50VAZ, 114 links

CHASSIS

Front suspension	Inverted telescopic, coil spring, oil damped
Rear suspension	Link type, coil spring, oil damped
Front fork stroke	120 mm (4.7 in)
Rear wheel travel	130 mm (5.1 in)
Caster	23°50'
Trail	98 mm (3.86 in)
Steering angle	27° (right & left)
Turning radius	3.4 m (11.2 ft)
Front brake	Disc brake, twin
Rear brake	Disc brake
Front tire	120/70ZR17M/C (58W), tubeless
Rear tire	190/50ZR17M/C (73W), tubeless

Specifications GSX-R1000L6

E-03: USA, E-33: California

ELECTRICAL

Ignition type	Electronic ignition (Transistorized)
Ignition timing	3° B.T.D.C. at 1150 r/min
Spark plug	NGK CR9E1A-9 or DENSO IU27D
Battery	12V 36.0 kC (10 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30A
Fuse	10/10/10/10/10/15A
Headlight	12V 55W (H11) + 12V 65W (H9)
Position/Parking light	12V 5W × 2
Brake/Tail light	LED
Turn signal light	12V 21W
License plate light	12V 5W
Combination meter light	LED
Neutral indicator light	LED
High beam indicator light	LED
Turn signal indicator light	LED
Oil pressure/Coolant temperature indicator light	LED
FI/SD indicator light	LED
Fuel level indicator light	LED
Engine RPM indicator light	LED

CAPACITIES

Fuel tank	16.5 L (4.4/3.6 US/Imp gal)	E-33
	17.5 L (4.6/3.8 US/Imp gal)	E-03
Engine oil, oil change	2800 ml (3.0/2.5 US/Imp qt)	
with filter change	3300 ml (3.5/2.9 US/Imp qt)	
overhaul	3600 ml (3.8/3.2 US/Imp qt)	
Coolant	2.8 L (3.0/2.5 US/Imp qt)	

Service Data GSX-R1000L6

E-03: USA, E-33: California

Valve + Guide

Unit: mm (in)

Item		Standard	Limit
Valve diam.	IN.	31.0 (1.22)	—
	EX.	25.0 (0.98)	—
Valve clearance (when cold)	IN.	0.08 – 0.18 (0.003 – 0.007)	—
	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 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 deflection	IN.	—	0.25 (0.010)
	EX.	—	0.35 (0.014)
Valve stem runout	IN. & EX.	—	0.05 (0.002)
Valve head thickness	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	Inner	—	30.1 (1.19)
	Outer	—	35.3 (1.39)
Valve spring tension	Inner	31.3 – 38.3 N (3.2 – 3.9 kgf, 7.0 – 8.6 lbs) at length 27.55 mm (1.085 in)	—
	Outer	91.3 – 105.1 N (9.3 – 10.7 kgf, 20.5 – 23.6 lbs) at length 33.05 mm (1.301 in)	—

Camshaft + Cylinder Head

Unit: mm (in)

Item		Standard	Limit
Cam height	IN.	37.68 – 37.73 (1.483 – 1.485)	37.38 (1.472)
	EX.	36.98 – 37.03 (1.456 – 1.458)	36.68 (1.444)
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		—	0.10 (0.004)
Cam chain pin (at arrow "3")		14th pin	—
Cylinder head distortion		—	0.02 (0.0008)

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	74.500 – 74.515 (2.9331 – 2.9337)	Nicks or scratches
Piston diam.	74.470 – 74.485 (2.9319 – 2.9325) Measure 8 mm (0.3 in) from the skirt end.	74.380 (2.9283)
Cylinder distortion	—	0.02 (0.0008)
Piston ring free end gap	1st	Approx. 7.0 (0.28)
	2nd	Approx. 8.0 (0.32)
Piston ring end gap	1st	0.06 – 0.18 (0.002 – 0.007)
	2nd	0.06 – 0.18 (0.002 – 0.007)
Piston ring-to-groove clearance	1st	—
	2nd	—
Piston ring groove width	1st	0.83 – 0.85 (0.0327 – 0.0335) 1.30 – 1.32 (0.0512 – 0.0520)
	2nd	0.81 – 0.83 (0.0319 – 0.0327)
	Oil	1.51 – 1.53 (0.0594 – 0.0602)
Piston ring thickness	1st	0.76 – 0.81 (0.0299 – 0.0319) 1.08 – 1.10 (0.0425 – 0.0433)
	2nd	0.77 – 0.79 (0.0303 – 0.0311)
Piston pin bore	15.002 – 15.008 (0.5906 – 0.5909)	15.030 (0.5917)
Piston pin O.D.	14.995 – 15.000 (0.5903 – 0.5512)	14.980 (0.5898)

Conrod + Crankshaft

Unit: mm (in)

Item	Standard	Limit
Conrod small end I.D.	15.010 – 15.018 (0.5909 – 0.5913)	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	0.040 – 0.064 (0.0016 – 0.0025)	0.080 (0.0031)
Crank pin O.D.	34.976 – 35.000 (1.3770 – 1.3780)	—
Crankshaft journal oil clearance	0.010 – 0.028 (0.0004 – 0.0011)	0.080 (0.0031)
Crankshaft journal O.D.	34.982 – 35.000 (1.3772 – 1.3780)	—
Crankshaft thrust bearing thickness	Right side	2.420 – 2.440 (0.0953 – 0.0961)
	Left side	2.360 – 2.500 (0.0929 – 0.0984)
Crankshaft thrust clearance	0.060 – 0.110 (0.0024 – 0.0043)	—
Crankshaft runout	—	0.05 (0.002)

Balancer

Unit: mm (in)

Item	Standard	Limit
Balancer shaft journal oil clearance	0.028 – 0.052 (0.0011 – 0.0020)	0.080 (0.0031)
Balancer shaft journal O.D.	19.992 – 20.000 (0.7871 – 0.7874)	—

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	3.22 – 3.38 (0.127 – 0.133)	2.92 (0.115)
Clutch drive plate claw width	No. 1 & 2	13.7 – 13.8 (0.539 – 0.543)	12.9 (0.508)
Clutch driven plate distortion	—		0.10 (0.004)
Clutch spring free length	52.06 (2.050)		49.5 (1.95)
Clutch lifter pin height	0.2 – 0.4 (0.008 – 0.016)		—
Wave spring washer height	—		4.30 (0.169)
Clutch lever play	10 – 15 (0.4 – 0.6)		—
Clutch release screw	1 turn counterclockwise		—

Drive Train

Unit: mm (in) Except ratio

Item	Standard		Limit
Primary reduction ratio	1.617 (76/47)		—
Final reduction ratio	2.470 (42/17)		—
Gear ratios	Low	2.562 (41/16)	—
	2nd	2.052 (39/19)	—
	3rd	1.714 (36/21)	—
	4th	1.500 (36/24)	—
	5th	1.360 (34/25)	—
	Top	1.269 (33/26)	—
Gearshift fork to groove clearance	0.1 – 0.3 (0.004 – 0.012)		0.5 (0.02)
Gearshift fork groove width	5.0 – 5.1 (0.197 – 0.201)		—
Gearshift fork thickness	4.8 – 4.9 (0.189 – 0.193)		—
Drive chain	Type	DID50VAZ	—
	Links	114 links	—
	20-pitch length	—	319.4 (12.57)
Drive chain slack (on side-stand)	20 – 30 (0.8 – 1.2)		—
Gearshift lever height	65 – 75 (2.6 – 3.0)		—

Thermostat + Radiator + Cooling Fan + Coolant

Item	Standard/Specification		Note
Thermostat valve opening temperature	Approx. 82 °C (180 °F)		—
Thermostat valve lift	Over 8 mm (0.31 in) and 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 (0.9 – 1.2 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 anti-freeze/coolant compatible with aluminum radiator.		—
Engine coolant	Reservoir tank side	Approx. 250 ml (0.3/0.2 US/Imp qt)	—
	Engine side	Approx. 2 500 ml (2.6/2.2 US/Imp qt)	—

Injector + Fuel Pump + Fuel Pressure Regulator

Item	Specification	Note
Injector resistance	10 – 11 Ω at 24 °C (75 °F)	
Fuel pump discharge amount	222 ml (7.5/7.8 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

Item	Standard/Specification	Note
CKP sensor resistance	142 – 194 Ω	
CKP sensor peak voltage	0.5 V and more	When cranking
IAP sensor input voltage	4.5 – 5.5 V	
IAP sensor output voltage	Approx. 2.7 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 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	0.15 – 4.85 V	
IAT sensor resistance	Approx. 2.58 k Ω at 20 °C (68 °F)	
AP sensor input voltage	4.5 – 5.5 V	
AP sensor output voltage	Approx. 3.6 V at 100 kPa (760 mmHg)	
TO sensor resistance	16.5 – 22.3 k Ω	
TO sensor voltage	Normal	0.4 – 1.4 V
	Leaning	3.7 – 4.4 V
GP switch voltage	0.6 V and more	When leaning 65° From 1st to Top
Injector voltage	Battery voltage	
Ignition coil primary peak voltage	80 V and more	When cranking
HO2 sensor output voltage	0.3 V and less at idle speed	
	0.6 V and 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	20 – 24 Ω at 20 – 30 °C (68 – 86 °F)	
STP sensor input voltage	4.5 – 5.5 V	
STP sensor output voltage	Closed	Approx. 0.7 V
	Opened	Approx. 4.1 V
STVA resistance	Approx. 6.5 Ω	
EXCVA position sensor input voltage	4.5 – 5.5 V	
EXCVA position sensor output voltage	Closed	0.45 – 1.4 V
	Opened	3.6 – 4.55 V
EXCVA position sensor resistance	Approx. 3.1 k Ω	At adjustment position
EVAP system purge control solenoid valve resistance	Approx. 32 Ω at 20 °C (68 °F)	If equipped
ISC valve resistance	Approx. 80 Ω at 20 °C (68 °F)	
Steering damper solenoid valve resistance	Approx. 12.5 Ω at 20 °C (68 °F)	
Steering damper solenoid valve voltage	Approx. 10 V	When battery fully charged

Throttle Body

Item	Specification
Bore size	44 mm (1.73 in)
I.D. No.	47H3 (For E-33), 47H2 (For E-03)
Idle r/min	1 150 ± 100 r/min
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)

Electrical

Unit: mm (in)

Item	Specification	Note	
Firing order	1 · 2 · 4 · 3		
Spark plug	Type	NGK: CR9EIA-9 DENSO: IU27D	
	Gap	0.8 – 0.9 (0.031 – 0.035)	
Spark performance	Over 8 (0.3) at 1 atm.		
CKP sensor resistance	142 – 194 Ω		
CKP sensor peak voltage	0.5 V and more	When cranking	
Ignition coil resistance	Primary	1.1 – 1.9 Ω	
	Secondary	6.4 – 9.6 kΩ	
Ignition coil primary peak voltage	80 V and more	When cranking	
Generator coil resistance	0.12 – 0.6 Ω		
Generator maximum output	Approx. 375 W at 5 000 r/min		
Generator no-load voltage (When engine is cold)	85 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	7.0 (0.28)	
	Limit	3.5 (0.14)	
Starter relay resistance	3 – 6 Ω		
Battery	Type designation	FT12A-BS	
	Capacity	12 V 36.0 kC (10 Ah)/10 HR	
Fuse size	Headlight	HI	10 A
		LO	10 A
	Ignition	10 A	
	Signal	10 A	
	Fuel	10 A	
	Fan	15 A	
	Main	30 A	

Wattage

Unit: W

Item		Specification
Headlight	HI	65
	LO	55
Position light		5 x 2
Brake light/Tail light		LED
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 indicator light		LED
Oil pressure/Engine coolant temp. indicator light		LED
FI indicator light/Sd Indicator light		LED
Fuel level indicator light		LED
Engine RPM indicator light		LED

Brake + Wheel

Unit: mm (in)

Item	Standard		Limit
Rear brake pedal height	65 – 75 (2.6 – 3.0)		—
Brake disc thickness	Front	4.9 – 5.3 (0.19 – 0.21)	4.5 (0.18)
	Rear	4.8 – 5.2 (0.19 – 0.20)	4.5 (0.18)
Brake disc runout	—		0.30 (0.012)
Master cylinder bore & piston	Front	Approx. 17.4 (0.69)	—
	Rear	Approx. 14.0 (0.55)	—
Brake caliper cylinder bore & piston	Front	Leading	Approx. 32.0 (1.26)
		Trailing	
	Rear	Approx. 30.2 (1.19)	—
Brake fluid type	DOT 4		—
Wheel rim runout	Axial	—	2.0 (0.08)
	Radial		
Wheel rim size	Front	17 M/C x MT 3.50	—
	Rear	17 M/C x MT 6.00	—
Wheel axle runout	Front	—	0.25 (0.010)
	Rear		

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 ZR17M/C (58 W)	—
	Rear	190/50 ZR17M/C (73 W)	—
Tire type	Front	BRIDGESTONE S20F F	—
	Rear	BRIDGESTONE S20R F	—
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	120 (4.7)		—
Front fork spring free length	235 (9.3)		230 (9.1)
Front fork oil level	78 (3.1) 72 (2.8) 10 min. after adjustment		—
Front fork oil type	SHOWA SUSPENSION FLUID SS-47 or equivalent		—
Front fork oil capacity (Each leg)	544 ml (18.4/19.2 US/Imp oz)		—
Front fork inner tube O.D.	43 (1.7)		—
Front fork spring adjuster	5-1/2 turns clockwise from softest position		—
Front fork damping force adjuster	Rebound	4 turns counterclockwise from stiffest position	—
	Compression	5-1/4 turns counterclockwise from stiffest position	—
Rear shock absorber spring pre-set length	184.3 (7.26)		—
Rear shock absorber damping force adjuster	Rebound	2-3/4 turns counterclockwise from stiffed position	—
	Compression	Lo: 2-1/4 turns counterclockwise from stiffest position Hi: 3 turns counterclockwise from stiffest position	—
Rear wheel travel	130 (5.12)		—
Swingarm pivot shaft runout	—		0.3 (0.01)

Fuel + Oil

Item	Specification		Note
Fuel type	Use only unleaded gasoline of at least 90 pump octane (R/2 + M/2). Gasoline containing MTBE (Methyl Tertiary Butyl Ether), less than 10% ethanol, or less than 5% methanol with appropriate cosolvents and corrosion inhibitor is permissible.		
Fuel tank capacity	Including reserve	16.5 L (4.4/3.6 US/Imp gal)	E-33
		17.5 L (4.6/3.8 US/Imp gal)	E-03
	Fuel level indicator light lighting	Approx. 3.5 L (0.9/0.8 US/Imp gal)	
Engine oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA		
Engine oil capacity	Change	2 800 ml (3.0/2.5 US/Imp qt)	
	Filter change	3 300 ml (3.5/2.9 US/Imp qt)	
	Overhaul	3 600 ml (3.8/3.2 US/Imp qt)	

Tightening Torque List

Engine

Item		N-m	kgf-m	lbf-ft	
Exhaust pipe bolt		23	2.3	16.5	
Exhaust support bolt		23	2.3	16.5	
Muffler connecting bolt		18	1.8	13.0	
Muffler support bolt		26	2.6	19.0	
Speed sensor rotor bolt		28	2.8	20.0	
Speed sensor mounting bolt		6.5	0.65	4.5	
Engine sprocket nut		145	14.5	105.0	
Engine mounting bolt (Cylinder)		55	5.5	39.8	
Engine mounting nut (Crankcase)		75	7.5	54.0	
Engine mounting thrust adjuster		23	2.3	16.5	
Engine mounting thrust adjuster lock-nut		45	4.5	32.5	
Engine mounting pinch bolt		23	2.3	16.5	
Cylinder head cover bolt	Initial	10	1.0	7.0	
	Final	14	1.4	10.0	
PAIR reed valve cover bolt		10	1.0	7.0	
Spark plug		11	1.1	8.0	
Cam chain guide No. 2 bolt		10	1.0	7.0	
Cam chain guide No. 1 bolt		23	2.3	16.5	
Camshaft journal holder bolt		10	1.0	7.0	
Cam chain tension adjuster service cap		23	2.3	16.5	
Cam chain tension adjuster mounting bolt		10	1.0	7.0	
Cam chain tensioner bolt		23	2.3	16.5	
Cylinder head bolt	[M10]	31 N·m (3.1 kgf-m, 22.5 lbf-ft) then turn in 1/6 (60°) turn			
	[M6]	10	1.0	7.0	
Water jacket plug		9.5	0.95	6.9	
Clutch cover bolt		10	1.0	7.0	
Clutch sleeve hub nut		95	9.5	68.5	
Clutch spring set bolt		10	1.0	7.0	
Clutch release adjuster cap		11	1.1	8.0	
Clutch release adjusting screw lock-nut		6	0.6	4.5	
Clutch lifter pin lock-nut		23	2.3	16.5	
Valve timing inspection cap		11	1.1	8.0	
Starter clutch bolt		54	5.4	39.0	
Generator cover bolt		10	1.0	7.0	
Generator rotor bolt		145	14.5	105.0	
Generator stator set bolt		11	1.1	8.0	
Generator lead wire set bolt		5.5	0.55	4.0	
Oil pressure switch		14	1.4	10.0	
Oil pressure switch lead wire screw		1.5	0.15	1.0	
Oil filter		20	2.0	14.5	
Crankshaft journal bolt	[M9]	18 N·m (1.8 kgf-m, 13.0 lbf-ft) then turn in 50°			
	[M6]	12	1.2	8.5	
Crankcase bolt	[M8]	Initial	15	1.5	11.0
		Final	26	2.6	19.0
Oil gallery plug	Cylinder head	10	1.0	7.0	
	[M6]	10	1.0	7.0	
	[M10]	18	1.8	13.0	
	[M12]	15	1.5	11.0	
	[M26]	11	1.1	8.0	
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	
Oil pump driven sprocket bolt		10	1.0	7.0	
Conrod cap bolt		37 N·m (3.7 kgf-m, 26.5 lbf-ft) then turn in 1/6 (60°) turn			

Item	N·m	kgf-m	lbf-ft
Breather cover bolt	10	1.0	7.0
Oil pan bolt	10	1.0	7.0
Oil cooler mounting bolt	5.5	0.55	4.0
Driveshaft bearing case bolt (LH and RH)	12	1.2	8.7
Driveshaft oil seal retainer screw	12	1.2	8.7
Gearshift arm stopper	19	1.9	13.5
Gearshift cam stopper bolt	10	1.0	7.0
Gearshift cam plate bolt	13	1.3	9.5
Gearshift cam bearing retainer screw	10	1.0	7.0
Gearshift shaft end screw	8.5	0.85	6.0
GP switch mounting bolt	6.5	0.65	4.5
Starter motor mounting bolt	10	1.0	7.0
Starter motor lead wire mounting bolt	4	0.4	3.0
Starter motor housing bolt	5	0.5	3.5
Regulator/rectifier mounting bolt	10	1.0	7.0
Intake pipe bolt	8.5	0.85	6.5
Bypass hose union	12	1.2	8.5

FI System + Intake Air System

Item	N·m	kgf-m	lbf-ft
CMP sensor bolt	10	1.0	7.0
TP sensor mounting screw	3.5	0.35	2.5
STP sensor mounting screw	3.5	0.35	2.5
ISC valve mounting screw	2	0.2	1.5
CKP sensor mounting bolt	6.5	0.65	4.5
HO2 sensor	25	2.5	18.0
Fuel delivery pipe mounting screw	3.5	0.35	2.5
Fuel pump mounting bolt	10	1.0	7.0
EXCVA pulley mounting bolt	5	0.5	3.5
IAT sensor mounting screw	1.3	0.13	1.0
EVAP system purge control solenoid valve mounting nut (If equipped)	6.5	0.65	4.5
EVAP system purge control solenoid valve bracket bolt (If equipped)	10	1.0	7.0

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
ECT sensor	18	1.8	13.0
Thermostat cover bolt	10	1.0	7.0
Water inlet connector bolt	10	1.0	7.0
Water pump air bleeder bolt	13	1.3	9.5
Water bypass union	12	1.2	8.5
Radiator bracket bolt	5.5	0.55	4.0
Reservoir tank bolt	6	0.6	4.5

Chassis

Item	N-m	kgf-m	lbf-ft
Steering stem head nut	90	9.0	65.0
Steering stem lock-nut	80	8.0	58.0
Steering damper bolt	23	2.3	16.5
Steering damper nut	23	2.3	16.5
Front fork clamp bolt (Upper and Lower)	23	2.3	16.5
Front fork cap	35	3.5	25.5
Front fork piston rod nut	28	2.8	20.0
Rod guide case	90	9.0	65.0
Front axle nut	100	10.0	72.5
Front axle pinch bolt	23	2.3	16.5
Handlebar clamp bolt	23	2.3	16.5
Front brake master cylinder holder bolt (Upper and Lower)	10	1.0	7.0
Front brake caliper mounting bolt	39	3.9	28.0
Brake hose union bolt	23	2.3	16.5
Brake pipe flare nut (With ABS)	16	1.6	11.5
Air bleeder valve (Front caliper)	7.5	0.75	5.5
Air bleeder valve (Rear caliper)	6	0.6	4.5
Air bleeder valve (Front master cylinder)	6	0.6	4.5
Brake disc bolt (Front)	18	1.8	13.0
Brake disc bolt (Rear)	35	3.5	25.5
Rear brake pad mounting pin	17	1.7	12.5
Rear brake pad mounting 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	17	1.7	12.5
Rear brake caliper sliding pin A	27	2.7	19.5
Rear brake caliper sliding pin B	12	1.2	8.5
Brake lever pivot bolt	1	0.1	0.7
Brake lever pivot bolt lock-nut	6	0.6	4.5
Swingarm pivot shaft	15	1.5	11.0
Swingarm pivot nut	100	10.0	72.5
Swingarm pivot lock-nut	90	9.0	65.0
Swingarm pivot boss nut	65	6.5	47.0
Cushion lever mounting nut	98	9.8	71.0
Cushion rod mounting nut (Front and Rear)	98	9.8	71.0
Rear shock absorber bracket nut	115	11.5	83.0
Rear shock absorber mounting nut (Upper and Lower)	50	5.0	36.0
Rear axle nut	100	10.0	72.5
Chain adjuster lock-nut	22	2.2	16.0
Rear sprocket nut	60	6.0	43.0
Rear combination light mounting bolt	2.8	0.28	2.0
License plate light mounting nut	5	0.5	3.5
Side-stand nut	40	4.0	29.0
Side-stand bolt	50	5.0	36.0
Side-stand bracket mounting bolt	50	5.0	36.0
Bank sensor bolt	18	1.8	13.0
Footrest bracket bolt	23	2.3	16.5
Footrest guard screw	4.5	0.45	3.0
Footrest holder bolt	35	3.5	25.5
Pillion footrest bolt	23	2.3	16.5
Seat rail mounting bolt	50	5.0	36.0
Cowling brace mounting bolt	23	2.3	16.5
Rear view mirror mounting nut	10	1.0	7.0