



Motorcycle
2012 Model: GSX-R750L2
Date: July 2011

MSRP \$12,199



Marble Daytona Yellow / Glass Sparkle Black (KGK)

Key Features

1. 750cm³ 4-cylinder engine with a race-proven oversquare bore/stroke ratio for an efficient, high-revving design.
2. The engine employs forged pistons, shot-peened conrods, chrome-nitride-coated upper compression and oil control rings, and pentagonal ventilation holes.
3. Lightweight titanium-alloy valves controlled by single valve spring to reduce mechanical losses.
4. Suzuki Dual Throttle Valve (SDTV) fuel injection, using fine-spray 8-hole injectors for improved fuel atomization, which contributes to more complete combustion.
5. Advanced, MotoGP-developed transistorized ignition control circuit helps maintain more precise spark timing across the range of engine temperature.

6. Suzuki Drive Mode Selector (S-DMS) offers push-button selection of two racing-developed engine control maps to suit road conditions and personal tastes.
7. 4-into-1 stainless-steel exhaust system with a titanium muffler, carrying a Suzuki Exhaust Tuning (SET) valve maximizing torque and improving throttle response, especially in the low-to-mid rpm range.
8. Race-proven back-torque-limiting clutch contributes to smoother downshifting and corner entry.
9. Lightweight and compact twin-spar aluminum cradle frame made of five cast sections and cast swingarm.
10. Race-developed, lightweight Showa Big Piston Front-forks (BPF) deliver superb feedback and consistent performance.
11. Single Showa rear shock features externally adjustable rebound and compression damping, along with adjustable ride height.
12. Electronically controlled steering damper provides lighter steering at slower speeds and more damping force at racetrack and highway speeds.
13. Front brakes with fully floating 310mm discs and radial-mount, four-piston Brembo monoblock calipers.
14. 3-way adjustable footpegs, adjustable shift lever, and short fuel tank help compose a comfortable riding position.
15. Compact, lightweight instrument cluster with a built-in lap timer/stopwatch and programmable engine rpm indicators.
16. Small, simple and lightweight bodywork composing an exciting, aerodynamic styling.
17. Analog tachometer. LCD readouts include speedometer, odometer, dual trip meter, reserve trip meter, clock, coolant temperature/oil pressure indicator, S-DMS and gear position indicator.



SPECIFICATIONS**MODEL: GSX-R750L2****DIMENSIONS AND CURB MASS**

Overall length.....	2030 mm (79.9 in)
Overall width.....	710 mm (28.0 in)
Overall height.....	1135 mm (44.7 in)
Wheelbase.....	1390 mm (54.7 in)
Ground clearance.....	130 mm (5.1 in)
Seat height.....	810 mm (31.9 in)
Curb mass.....	190 kg (419 lbs)

ENGINE

Type.....	4-stroke, liquid-cooled, DOHC
Number of cylinders.....	4
Bore.....	70.0 mm (2.756 in)
Stroke.....	48.7 mm (1.917 in)
Displacement.....	750 cm ³ (45.8 cu. in)
Compression ratio.....	12.5 : 1
Fuel system.....	Fuel injection
Air cleaner.....	Paper 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.....	1.761 (74/42)
Gear ratios, Low.....	2.785 (39/14)
2nd.....	2.052 (39/19)
3rd.....	1.714 (36/21)
4th.....	1.500 (36/24)
5th.....	1.347 (31/23)
Top.....	1.208 (29/24)
Final reduction ratio.....	2.647 (45/17)
Drive chain.....	RK525ROZ5Y, 116 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° 45'
Trail.....	97 mm (3.82 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.....	180/55ZR17M/C (73W), tubeless

ELECTRICAL

Ignition type.....	Electronic ignition (Transistorized)
Ignition timing.....	3° B.T.D.C. at 1200 r/min
Spark plug.....	NGK CR9EIA-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 65W (H9) + 12V 55W (H7)
Position light.....	12V 5W x 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
Fuel level indicator light.....	LED
Oil pressure/Coolant temperature indicator light.....	LED
FI/SD indicator light.....	LED
Engine RPM indicator light.....	LED
Immobilizer indicator light.....	LED...E-21, 24

CAPACITIES

Fuel tank.....	16.0 L (4.2/3.5 US/Imp gal) E-33 17.0 L (4.5/3.7 US/Imp gal) Others
Engine oil, oil change.....	2200 ml (2.3/1.9 US/Imp qt)
with filter change.....	2500 ml (2.6/2.2 US/Imp qt)
overhaul.....	2900 ml (3.1/2.6 US/Imp qt)
Coolant.....	2.7 L (2.9/2.4 US/Imp qt)

SERVICE DATA

Valve + Guide

Unit: mm (in)

Item		Standard	Limit
Valve diam.	IN.	29.0 (1.14)	—
	EX.	23.0 (0.91)	—
Valve clearance (when cold)	IN.	0.08 – 0.18 (0.003 – 0.007)	—
	EX.	0.18 – 0.28 (0.007 – 0.011)	—
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. & EX.	—	0.25 (0.010)
Valve stem runout	IN. & EX.	—	0.05 (0.002)
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.	—	37.1 (1.46)
Valve spring tension	IN. & EX.	142 – 157 N (14.5 – 16.0 kgf, 31.9 – 35.3 lbs) at length 33.55 mm (1.321 in)	—

Camshaft + Cylinder Head

Unit: mm (in)

Item		Standard	Limit
Cam height	IN.	36.58 – 36.63 (1.440 – 1.442)	36.28 (1.428)
	EX.	35.78 – 35.83 (1.409 – 1.411)	35.48 (1.397)
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")		12th 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	0.030 – 0.040 (0.0012 – 0.0016)			0.120 (0.0047)
Cylinder bore	70.000 – 70.015 (2.7599 – 2.7565)			No nicks or Scratches
Piston diam.	69.965 – 69.980 (2.7545 – 2.7551) Measure 15 mm (0.6 in) from the skirt end.			69.880 (2.7512)
Cylinder distortion	—			0.20 (0.008)
Piston ring free end gap	1st	IR	Approx. 9.2 (0.36)	7.3 (0.29)
	2nd	R	Approx. 7.3 (0.29)	5.8 (0.23)
Piston ring end gap	1st	IR	0.06 – 0.21 (0.002 – 0.008)	0.50 (0.020)
	2nd	R	0.06 – 0.18 (0.002 – 0.007)	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	0.81 – 0.83 (0.0319 – 0.0327)		—
	Oil	1.51 – 1.53 (0.0594 – 0.0602)		—
Piston ring thickness	1st	0.97 – 0.99 (0.0382 – 0.0390)		—
	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 – 0.5906)			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	0.032 – 0.056 (0.0013 – 0.0022)			0.080 (0.0031)
Crank pin O.D.	32.976 – 33.000 (1.2983 – 1.2992)			—
Crankshaft journal oil clearance	0.010 – 0.028 (0.0004 – 0.0011)			0.080 (0.0031)
Crankshaft journal O.D.	31.982 – 32.000 (1.2591 – 1.2598)			—
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 thrust clearance	0.055 – 0.110 (0.0022 – 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.	22.976 – 22.992 (0.9046 – 0.9052)		—

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	2.72 – 2.88 (0.107 – 0.113)	2.42 (0.095)
Clutch drive plate claw width	No. 1, 2 & 3	13.85 – 13.96 (0.545 – 0.550)	13.05 (0.514)
Clutch driven plate distortion	—		0.10 (0.004)
Clutch spring free length	66.47 (2.617)		63.2 (2.49)
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 back		—

Drive Train

Unit: mm (in) Except ratio

Item	Standard		Limit
Primary reduction ratio	1.761 (74/42)		—
Final reduction ratio	2.647 (45/17)		—
Gear ratios	Low	2.785 (39/14)	—
	2nd	2.052 (39/19)	—
	3rd	1.714 (36/21)	—
	4th	1.500 (36/24)	—
	5th	1.347 (31/23)	—
	Top	1.208 (29/24)	—
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	RK 525ROZ5Y	—
	Links	116 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 + 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	108 – 137 kPa (1.1 – 1.4 kgf/cm ² , 15.4 – 19.5 psi)		—
Cooling fan operating temperature	OFF → ON	Approx. 105 °C (221 °F)	IAT 40 °C (104 °F) and less
	ON → OFF	Approx. 100 °C (212 °F)	
	OFF → ON	Approx. 100 °C (212 °F)	IAT 40 °C (104 °F) and more
	ON → OFF	Approx. 95 °C (203 °F)	
Engine coolant type	Use an anti-freeze/coolant compatible with aluminum radiator, mixed with distilled water only, at the ratio of 50:50.		—
Engine coolant including reserve	Reserve tank side	Approx. 250 ml (0.3/0.2 US/Imp qt)	—
	Engine side	Approx. 2 400 ml (2.5/2.1 US/Imp qt)	—

Injector + Fuel Pump + Fuel Pressure Regulator

Item	Specification	Note
Injector resistance	Approx. 12 Ω at 20 °C (68 °F)	Primary and secondary
Fuel pump discharge amount	167 ml (5.6/5.9 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	Approx. 168 Ω at 20 °C (68 °F)	
CKP sensor peak voltage	0.28 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	1.02 – 1.22 V
	Opened	4.34 – 4.54 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	Approx. 19.4 k Ω at 20 °C (68 °F)	
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	Primary and secondary
Ignition coil primary peak voltage	80 V and more	When cranking
HO2 sensor output voltage	0.4 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	0.52 – 0.72 V
	Opened	4.12 – 4.32 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)	E-33 only
ISC valve resistance	Approx. 20 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	42 mm (1.65 in)
I.D. No.	15J1 (For E-33), 15J0 (For others)
Idle r/min	1 200 ± 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	Approx. 168 Ω at 20 °C (68 °F)		
CKP sensor peak voltage	0.28 V and more	When cranking	
Ignition coil resistance	Primary	1.1 – 1.5 Ω at 20 °C (68 °F)	Terminal – Terminal
	Secondary	6.4 – 9.6 kΩ at 20 °C (68 °F)	Plug cap – Terminal
Ignition coil primary peak voltage	80 V and more	When cranking	
Generator coil resistance	0.2 – 1.0 Ω		
Generator maximum output	Approx. 400 W at 5 000 r/min		
Generator no-load voltage (When engine is cold)	65 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)	
	Limit	6.5 (0.26)	
Starter relay resistance	3 – 6 Ω		
Battery	Type designation	FT12A-BS	
	Capacity	12 V 36.0 kC (10 Ah)/10 HR	
	Standard electrolyte S.G.	1.320 at 20 °C (68 °F)	
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	
		E-21, 24	E-03, 28, 33
Headlight	HI	65	←
	LO	55	←
Position light		5 x 2	←
Brake/Tail light		LED	←
Turn signal light		21 x 4	←
License plate light		5	←
Combination meter light		LED	←
Turn signal indicator light		LED	←
High beam indicator light		LED	←
Neutral position indicator light		LED	←
Oil pressure indicator light/Engine coolant temp. indicator light		LED	←
FI indicator light/Sd indicator light		LED	←
Fuel level indicator light		LED	←
Engine RPM indicator light		LED	←
Immobilizer 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	4.8 – 5.2 (0.19 – 0.20)	4.5 (0.18)
	Rear		
Brake disc runout	—		0.30 (0.012)
Master cylinder bore & piston diam.	Front	Approx. 17.5 (0.69)	—
	Rear	Approx. 14.0 (0.55)	—
Brake caliper cylinder bore & piston diam.	Front	Leading	Approx. 32.0 (1.26)
		Trailing	
Brake fluid type	Rear	Approx. 30.2 (1.19)	—
	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 5.50	—
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	180/55 ZR17M/C (73 W)	—
Tire type	Front	BRIDGESTONE BATTLAX BT016F G	—
	Rear	BRIDGESTONE BATTLAX BT016R G	—
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	238.4 (9.39)		233 (9.2)
Front fork oil level	90 (3.5) 80 (3.1) 10 min. after adjustment		—
Front fork oil type	FORK OIL SS-47 or an equivalent fork oil		—
Front fork oil capacity (Each leg)	487 ml (16.5/17.1 US/Imp oz)		—
Front fork inner tube O.D	41 (1.6)		—
Front fork spring adjuster	4 turns in from full soft position		—
Front fork damping force adjuster	Rebound	4 turns out from full hard position	—
	Compression	5 turns out from full hard position	—
Rear shock absorber spring pre-set length	181 (7.1)		—
Rear shock absorber damping force adjuster	Rebound	2 turns out from full hard position	—
	Compression	Lo: 2-1/4 turns out from full hard position Hi: 3 turns out from full hard position	—
Rear wheel travel	130 (5.1)		—
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.		E-03, 28, 33	
	Gasoline used should be graded 95 octane (Research Method) or higher. Unleaded gasoline is recommended.		Others	
Fuel tank capacity	Including reserve	16 L (4.2/3.5 US/Imp gal)	E-33	
		17 L (4.5/3.7 US/Imp gal)	Others	
	Fuel level indicator	blink	Approx. 3.9 L (1.0/0.9 US/Imp gal)	
		light lighting	Approx. 1.5 L (0.4/0.3 US/Imp gal)	
Engine oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA			
Engine oil capacity	Change	2 200 ml (2.3/1.9 US/Imp qt)		
	Filter change	2 500 ml (2.6/2.2 US/Imp qt)		
	Overhaul	2 900 ml (3.1/2.6 US/Imp qt)		

Tightening Torque List

BENB15J10307002

Engine

Item		N-m	kgf-m	lbf-ft	
Exhaust pipe bolt		23	2.3	16.5	
Exhaust chamber support bolt		23	2.3	16.5	
Exhaust chamber support bracket bolt		26	2.6	19.0	
Muffler connecting bolt		23	2.3	16.5	
Muffler cover bolt		11	1.1	8.0	
Muffler support bolt		26	2.6	19.0	
Speed sensor rotor bolt		28	2.8	20.0	
Speed sensor bolt		4.5	0.45	3.0	
Engine sprocket nut		115	11.5	83.0	
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		14	1.4	10.0	
Spark plug		11	1.1	8.0	
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	
CKP sensor rotor/cam chain drive sprocket bolt		54	5.4	39.0	
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	
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 push rod adjusting screw lock-nut		5.5	0.55	4.0	
Clutch lifter pin lock-nut		23	2.3	16.5	
Clutch cable lock-nut		4.5	0.45	3.0	
Crankshaft hole plug		11	1.1	8.0	
Starter clutch bolt		15	1.5	11.0	
Generator rotor bolt		120	12.0	87.0	
Generator stator set bolt		11	1.1	8.0	
Generator lead wire clamp 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°			
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
Oil gallery plug		7	0.7	5.0	
Oil gallery plug	[M6]	10	1.0	7.0	
	[M12]	15	1.5	11.0	
	[M16]	35	3.5	25.5	
Oil drain plug		23	2.3	16.5	
Oil gallery jet		27	2.7	19.5	
Piston cooling oil jet bolt		10	1.0	7.0	
Conrod cap bolt		15 N·m (1.5 kgf-m, 11.0 lbf-ft) then turn in 1/4 (90°) turn			
Oil cooler mounting bolt		10	1.0	7.0	

Item		N-m	kgf-m	lbf-ft
Driveshaft bearing cover bolt	Initial	6	0.6	4.5
	Final	12	1.2	8.5
Driveshaft bearing case bolt (LH and RH)		12	1.2	8.5
Driveshaft retainer bolt		12	1.2	8.5
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	6.1
Gearshift lever shaft		40	4.0	29.0
Gearshift lever bracket bolt		28	2.8	20.0
Push rod oil seal retainer bolt		10	1.0	7.0
Starter motor mounting bolt		10	1.0	7.0
Starter motor lead wire mounting nut		6	0.6	4.5
Starter motor housing bolt		5	0.5	3.5
Starter motor brush holder nut		11	1.1	8.0
PAIR solenoid valve bracket mounting bolt		11	1.1	8.0
Throttle cable nut		4.5	0.45	3.0

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 screw		5.5	0.55	4.0
CKP sensor clamp screw		5.5	0.55	4.0
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
EXCV cable bracket mounting nut		11	1.1	8.0
IAP sensor mounting screw		3.5	0.35	2.5
IAT sensor mounting bolt		1.5	0.15	1.0
GP switch mounting bolt		6.5	0.65	4.5
Intake pipe bolt		10	1.0	7.0
Intake pipe clamp screw		1.5	0.15	1.0
Air cleaner box cover screw		1.5	0.15	1.0
Air cleaner holder bolt		10	1.0	7.0
Funnel bolt		4.3	0.43	3.0
EVAP pipe mounting bolt (E-33 only)		10	1.0	7.0
EVAP system purge control solenoid valve mounting nut (E-33 only)		10	1.0	7.0
EVAP system purge control solenoid valve bracket bolt (E-33 only)		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		5.5	0.55	4.0
Water pump air bleeder bolt		13	1.3	9.5
Water pump mounting bolt		10	1.0	7.0
ECT sensor		18	1.8	13.0
Radiator reservoir tank bolt		6	0.6	4.5
Water hose clamp screw		1.5	0.15	1.0

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 upper clamp bolt	23	2.3	16.5
Front fork lower clamp bolt	23	2.3	16.5
Front fork cap bolt	35	3.5	25.5
Front fork piston rod nut	28	2.8	20.0
Front fork 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
Handlebar balancer screw	5.5	0.55	4.0
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
Air bleeder valve (Front caliper)	7.5	0.75	5.5
Air bleeder valve (Rear caliper)	6.0	0.6	4.5
Air bleeder valve (Front master cylinder)	6.0	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	18	1.8	13.0
Rear brake pad mounting pin plug	2.5	0.25	2.0
Rear brake caliper sliding pin A	27	2.7	19.5
Rear brake caliper sliding pin B	13	1.3	9.5
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake master cylinder rod lock-nut	18	1.8	13.0
Brake lever pivot bolt	1	0.1	0.7
Brake lever pivot bolt lock-nut	6	0.6	4.5
Clutch lever pivot nut	6.5	0.65	4.7
Clutch lever holder bolt	10	1.0	7.0
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
Cushion lever mounting nut	98	9.8	71.0
Cushion rod mounting nut	98	9.8	71.0
Rear shock absorber bracket nut	100	10.0	72.5
Rear shock absorber mounting nut (Upper and Lower)	50	5.0	36.0
Spring adjuster lock-nut	35	3.5	25.5
Rear axle nut	100	10.0	72.5
Rear sprocket nut	60	6.0	43.0
Rear combination light mounting bolt	5	0.5	3.5
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 (Left side)	4.5	0.45	3.0
Footrest holder bolt	35	3.5	25.5
Pillion footrest bracket bolt	23	2.3	16.5
Seat rail mounting bolt	50	5.0	36.0
Cowling brace mounting nut	38	3.8	27.5
Rear fender (Lower) mounting bolt	10	1.0	7.0
Rear view mirror mounting nut	10	1.0	7.0

Item	N-m	kgf-m	lbf-ft
Front reflector bolt (E-03, 24, 28, 33)	10	1.0	7.0
Front reflex reflector (E-03, 24, 28, 33)	1.8	0.18	1.3
Rear reflex reflector nut (E-03, 28, 33)	1.8	0.18	1.3
Under cowling mounting screw (right side)	6.5	0.65	4.7