Features & Specifications 2019 GSX-R750



Overview

Three decades ago Suzuki revolutionized sportbikes with the introduction of the GSX-R750. Ever since then, the GSX-R750 has remained true to its original concept and championship-winning heritage. On the road or on the track, the GSX-R750 delivers a breathtaking combination of outstanding engine performance, crisp handling, compact size, and light weight. Its secret is an unequaled pairing of 750cc performance with the lightweight, compact chassis of a 600cc Supersport, complemented by technologically advanced suspension front and rear. Try a GSX-R750 and you'll quickly realize this motorcycle defines performance riding from the center of the sportbike class.

Key Features

- The GSX-R750's look was born and raised on the racetrack, and for 2019 that styling has two new, dual-color paint schemes. Riders can choose the Glass Sparkle Black/Pearl Glacier White scheme that includes red bodywork graphics and striping on the black cast aluminum wheels. Also available is a scheme that blends a shiny and flat finish via Metallic Matter Black/Glass Sparkle Black bodywork that also includes red graphics and accents on black wheels.
- The GSX-R750's fuel injected, 750cc, four-cylinder engine powers a balanced sportbike experience. This engine pulls strong off the bottom like a larger-displacement powerplant while it builds revs like a smaller mill it's the best of both worlds.
- The Suzuki Drive Mode Selector (S-DMS) lets the rider adjust the engine's power delivery to suit the riding conditions.
- The twin-spar aluminum frame effectively connects the steering head with the swingarm pivot portion of the chassis in a way that balances light weight and strength. The engine is suspended below the frame to keep mass low and the wheelbase short to promote nimble handling.
- The Showa Big Piston front Fork (BPF) and remote reservoir rear shock absorber are fully adjustable to deliver exceptional handling.
- Twin Brembo Monobloc, radially mounted front brake calipers grasp fully floating stainless steel brake rotors to deliver strong stopping power.





Engine Features

- Compact 750cc, four-cylinder engine with a race-proven over-square bore/stroke ratio produces remarkably strong high rpm power delivery.
- The energy-efficient engine employs forged pistons, shot-peened connecting rods, chrome-nitridecoated upper compression and oil control rings, and pentagonal ventilation holes to reduce frictional and mechanical losses.
- Lightweight titanium alloy valves are controlled by single-coil valve springs to reduce valve-train mass, reducing mechanical losses at high rpm.
- Suzuki Dual Throttle Valve (SDTV) fuel injection uses eight fine-spray eight-hole injectors for improved fuel atomization, which contributes to more complete combustion.
- An Engine Control Module (ECM) provides state-of-the-art engine management and has enhanced settings to suit the intake and exhaust systems, resulting in better fuel economy and linear throttle response.
- Advanced MotoGP-developed transistorized ignition control programming helps maintain more precise spark timing across the range of engine speed and temperature.
- Suzuki Drive Mode Selector (S-DMS) offers push-button selection of two racing-developed engine control maps to suit road or track conditions and personal tastes.
- Four-into-one stainless steel exhaust system with a titanium muffler is fitted with a Suzuki Exhaust Tuning (SET) valve that maximizes torque and improves throttle response, especially in the low- to mid-rpm range.
- The close-ratio six-speed transmission features a taller first-gear ratio and shorter ratios for 2nd, 3rd, 4th, and 6th gear, making it easier for a racer to get a good start while improving straight-line acceleration and drive out of corners.
- Race-proven back-torque-limiting clutch contributes to smoother downshifting and corner entry.

Chassis Features

- Lightweight and compact twin-spar aluminum alloy frame is constructed of five cast sections to produce a balance of light weight and strength.
- The frame is mated with a cast aluminum swingarm and multi-piece rear sub-frame that's ready for racetrack use.
- Race-developed, lightweight Showa Big Piston front Fork (BPF) delivers superb feedback and consistent performance.



Chassis Features (continued)

- Single Showa rear shock features externally adjustable rebound and compression damping, along with adjustable ride height.
- Electronically controlled steering damper provides lighter steering at slower speeds and more damping force at racetrack and highway speeds.
- Front brakes with fully floating 310mm discs are grasped by radial-mount, four-piston Brembo Monobloc calipers.
- Three-spoke cast aluminum alloy wheels are shod with lightweight, high-grip front and rear tires for sharp handling.
- Three-way adjustable foot pegs, adjustable shift lever, and short fuel tank help compose a comfortable riding position that permits the rider movement required for performance riding.
- Compact, lightweight instrument cluster with a built-in lap timer/stopwatch and programmable engine rpm indicators to alert the rider to certain shift points.
- Trim, simple, and lightweight bodywork creates an exciting, aerodynamic style that truly works well at speed.
- Distinctive multi-reflector headlight with vertically stacked high- and low-beam halogen bulbs is centered between position lights on each side.
- · Bright, durable LED tail light, with clear lens.
- The front turn signals are integrated into the rearview mirrors while the rear tail section houses the rear signals.
- The lightweight instruments also include an analog tachometer and LCD readouts that show speed, odometer, dual trip meter, reserve trip meter, clock, coolant temperature/oil pressure indicator, S-DMS, and gear position indicators.
- Attention to rider comfort and confidence includes a carefully shaped seat with a high-grip cover.
- The wheel rims have pinstripes 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.

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Specifications GSX-R750L9 E-03: USA, E-33: California

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	

ENGINE

Type	4-stroke, liquid-cooled, DOHC
Number of cylinders	4
Bore	
Stroke	48.7 mm (1.917 in)
Displacement	750 cm ³ (45.8 cu. in)
Compression ratio	
Fuel system	Fuel injection
Air cleaner	Paper element
Starter system	Electric
Lubrication system	
Idle speed	•

DRIVE TRAIN

DIVIAL LIVE	••	
Clutch		Wet multi-plate type
Transmission	1	6-speed constant mesh
Gearshift pat	tern	1-down, 5-up
	ction ratio	
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	on ratio	2.647 (45/17)
Drive chain		RK525ROZ5Y, 116 links

CHASSIS

Front suspension	
Front fork stroke	
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



Specifications GSX-R750L9 E-03: USA, E-33: California

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	
Main fuse	30A
Fuse	10/10/10/10/15A
Headlight	12V 65W (H9) + 12V 55W (H7)
Position 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
Fuel level indicator light	LED
Oil pressure/Coolant temperature indicator light	LED

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)E-03
Engine oil, oil	change	2200 ml (2.3/1.9 US/Imp qt)
wit	h filter change	2500 ml (2.6/2.2 US/Imp qt)
ove	erhaul	2900 ml (3.1/2.6 US/Imp qt)
Coolant		2.7 L (2.9/2.4 US/Imp qt)

FI/SD indicator light LED Engine RPM indicator light LED

Service Data GSX-R750L9 E-03: USA, E-33: California

Valve + Guide

Unit: mm (in)

Item		Limit	
Valve diam.	IN.	29.0 (1.14)	_
valve diam.	EX.	23.0 (0.91)	_
Valve clearance (when cold)	IN.	0.08 - 0.18 (0.003 - 0.007)	_
valve clearance (when cold)	EX.	0.18 - 0.28 (0.007 - 0.011)	_
Valve guide to valve stem clearance	IN.	0.010 - 0.037 (0.0004 - 0.0015)	_
valve guide to valve sterri clearance	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)	_
valve stelli O.D.	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)	
Cam neight	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		_		

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)	_

Cylinder + Piston + Piston Ring Unit: mm (in)

ltem			Standard	Limit
Compression pressure	13	300 – 1	1 000 kPa (10 kgf/cm², 142 psi)	
Compression pressure difference			_	200 kPa (2 kgf/cm², 28 psi)
Piston-to-cylinder clearance		C	0.030 - 0.040 (0.0012 - 0.0016)	0.120 (0.0047)
Cylinder bore		70	0.000 – 70.015 (2.7599 – 2.7565)	No nicks or Scratches
Piston diam.		69 Measi	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)
T Istori fing free end gap	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)
T istori fing cha gap	2nd	R	0.06 - 0.18 (0.002 - 0.007)	0.50 (0.020)
Piston ring-to-groove clearance	1	st	_	0.180 (0.0071)
Tistori fing to groove clearance	21	nd	_	0.150 (0.0059)
	1	st	1.01 – 1.03 (0.0398 – 0.0406)	_
Piston ring groove width		nd	0.81 - 0.83 (0.0319 - 0.0327)	_
	C	Dil	1.51 – 1.53 (0.0594 – 0.0602)	_
Piston ring thickness	1st		0.97 - 0.99 (0.0382 - 0.0390)	_
•	21	nd	0.77 - 0.79 (0.0303 - 0.0311)	_
Piston pin bore	15		5.002 - 15.008 (0.5906 - 0.5909)	15.030 (0.5917)
Piston pin O.D.		14	l.995 – 15.000 (0.5903 – 0.5906)	14.980 (0.5898)

Conrod + Crankshaft

Unit: mm (in)

ltem		Limit			
Conrod small end I.D.	15	5.010 – 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		9.95 - 20.00 (0.7854 - 0.7874)	_		
Crank pin width	2	20.10 – 20.15 (0.7913 – 0.7933)	_		
Conrod big end oil clearance	C	0.032 - 0.056 (0.0013 - 0.0022)			
Crank pin O.D.		32.976 - 33.000 (1.2983 - 1.2992)			
Crankshaft journal oil clearance	C	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)	_		
Clarikshalt tillust bearing tillckness	Left side	2.350 - 2.500 (0.0925 - 0.0984)	_		
Crankshaft thrust clearance	C	_			
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/cm², 14 – 57 psi) at 3 000 r/min	_



Clutch

Unit: mm (in)

Item		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		63.2 (2.49)	
Clutch lifter pin height		_	
Wave spring washer height		4.30 (0.169)	
Clutch lever play		_	
Clutch release screw		1 turn back	_

Drive Train

Unit: mm (in) Except ratio

Item			Limit		
Primary reduction ratio	Primary reduction ratio		1.761 (74/42)		
Final reduction ratio			_		
	Low		_		
	2nd		2.052 (39/19)	_	
Gear ratios	3rd		1.714 (36/21)	_	
Geal fallos	4th		1.500 (36/24)	_	
	5th		1.347 (31/23)	_	
	Тор		_		
Gearshift fork to groove cle	earance		0.5 (0.02)		
Gearshift fork groove width	1		5.0 – 5.1 (0.197 – 0.201)	_	
Gearshift fork thickness		4.8 – 4.9 (0.189 – 0.193)		_	
		Type	RK 525ROZ5Y	_	
Drive chain		Links	116 links	_	
Drive cham		20-pitch length		319.4 (12.57)	
Drive chain slack (on side-	Drive chain slack (on side-stand)		20 – 30 (0.8 – 1.2)		
Gearshift lever height			_		

Thermostat + Radiator + Fan + Coolant

Item		Note	
Thermostat valve opening temperature	Approx. 82 °C (180 °F)		_
Thermostat valve lift	Over	3 mm (0.31 in) and at 95 °C (203 °F)	_
	20 °C (68 °F)	Approx. 2.45 kΩ	_
ECT sensor resistance	50 °C (122 °F)	Approx. 0.811 kΩ	_
ECT sensor resistance	80 °C (176 °F)	Approx. 0.318 kΩ	_
	110 °C (230 °F)	Approx. 0.142 kΩ	_
Radiator cap valve opening pressure	108 – 137	_	
	$OFF \rightarrow ON$	Approx. 105 °C (221 °F)	IAT 40 °C (104 °F)
Cooling fan operating temperature	$ON \rightarrow OFF$	Approx. 100 °C (212 °F)	and less
	$OFF \to ON$	Approx. 100 °C (212 °F)	IAT 40 °C (104 °F)
	$ON \rightarrow OFF$	Approx. 95 °C (203 °F)	and more
Engine coolant type	Use an anti-fre radiator.	_	
Engine coolant including reserve	Reserve tank side	Approx. 250 ml (0.3/0.2 US/lmp qt)	_
	Engine side	Approx. 2 400 ml (2.5/2.1 US/lmp qt)	_

Injector + Fuel Pump + Fuel Pressure Regulator

ltem	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/cm², 43 psi)	

FI Sensors

Item		Note	
CKP sensor resistance	ı		
CKP sensor peak voltage		When cranking	
IAP sensor input voltage			
IAP sensor output voltage		Approx. 2.7 V at idle speed	
TP sensor input voltage		4.5 – 5.5 V	
TD concer cutnut valtage	Closed	1.02 – 1.22 V	
TP sensor output voltage	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	Д	Approx. 2.45 kΩ 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	Д	npprox. 2.58 kΩ at 20 °C (68 °F)	
AP sensor input voltage		4.5 – 5.5 V	
AP sensor output voltage	App	rox. 3.6 V at 100 kPa (760 mmHg)	
TO sensor resistance	Δ	pprox. 19.4 kΩ at 20 °C (68 °F)	
TO concer voltage	Normal	0.4 – 1.4 V	
TO sensor voltage	Leaning	3.7 – 4.4 V	When leaning 65°
GP switch voltage		0.6 V and more	From 1st to Top
Injector voltage		Primary and secondary	
Ignition coil primary peak voltage		When cranking	
1100			
HO2 sensor output voltage			
HO2 sensor heater resistance		6.7 – 9.5 Ω at 23 °C (73 °F)	
PAIR control solenoid valve	20	– 24 Ω at 20 – 30 °C (68 – 86 °F)	
resistance	20	,	
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	Closed	0.45 – 1.4 V	
voltage	Opened	3.6 – 4.55 V	
EXCVA position sensor resistance		At adjustment position	
EVAP system purge control solenoid valve resistance	Approx. 32 Ω at 20 °C (68 °F)		If equipped
ISC valve resistance	Approx. 20 Ω at 20 °C (68 °F)		
Steering damper solenoid valve resistance			
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 E-03)
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			Note	
Firing orde	er				
Spark plug	I		Туре	NGK: CR9EIA-9 DENSO: IU27D	
Cooulenand			Gap	0.8 - 0.9 (0.031 - 0.035)	
Spark perf	ormance or resistance			Over 8 (0.3) at 1 atm.	
				Approx. 168 Ω at 20 °C (68 °F) 0.28 V and more	Mhan arankina
CKP sens	or peak voltage			0.28 v and more	When cranking
lanition co	il resistance		Primary	1.1 – 1.5 Ω at 20 °C (68 °F)	Terminal – Terminal
igililori co	ii resistance		Secondary	$6.4-9.6~k\Omega$ at 20 °C (68 °F)	Plug cap – Terminal
	il primary peak v	oltage		80 V and more	When cranking
Generator	coil resistance			0.2 – 1.0 Ω	
Generator	maximum outpu	ıt		Approx. 400 W at 5 000 r/min	
Generator engine is o	no-load voltage cold)	(When	65 V (AC) and more at 5 000 r/min		
Regulated	voltage			14.0 – 15.5 V at 5 000 r/min	
Starter mo	tor brush length		Standard Limit	12.0 (0.47) 6.5 (0.26)	
Starter rela	ay resistance			3-6Ω	
	Type design	nation		FT12A-BS	
Battery	Capacit			12 V 36.0 kC (10 Ah)/10 HR	
,	Standard electro			1.320 at 20 °C (68 °F)	
	l la a alli alat	HI			
	Headlight	LO			
	Ignitior	i			
Fuse size	Signal		10 A		
	Fuel				
	Fan			15 A	
	Main			30 A	

Wattage Unit: W

Item		Specification	
Headlight	HI	65	
rieadiigrit	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 li		LED	
Oil pressure indicator light/	Engine	LED	
coolant temp. indicator ligh	nt	LED	
FI indicator light/Sd indicator light		LED	
Fuel level indicator light		LED	
Engine RPM indicator light		LED	

Brake + Wheel

Unit: mm (in)

ltem		Limit	
Rear brake pedal height		_	
Brake disc thickness	Front	4.8 – 5.2 (0.19 – 0.20)	4.5 (0.18)
Diake disc tilickress	Rear	4.8 – 3.2 (0.19 – 0.20)	4.3 (0.18)
Brake disc runout		-	0.30 (0.012)
Master cylinder bore & piston diam.	Front	Approx. 17.5 (0.69)	_
Master cylinder bore & piston diam.	Rear	Approx. 14.0 (0.55)	_
Brake caliper cylinder bore & piston diam.	Front	Leading Approx. 32.0 (1.26)	_
	TIOIIL	Trailing \ \ \ \ \ \ \ \	_
	Rear	Approx. 30.2 (1.19)	_
Brake fluid type		DOT 4	_
Wheel rim runout	Axial	<u></u>	2.0 (0.08)
Wileer IIII Tullout	Radial		2.0 (0.08)
Wheel rim size	Front	17 M/C x MT 3.50	_
Wileer fillt Size	Rear	17 M/C x MT 5.50	
Wheel axle runout	Front		0.25 (0.010)
wheel axie runout	Rear	_	0.25 (0.010)

Tire

Item		Standard			
Cold inflation tire pressure	Front	250 kPa (2.50 kgf/cm², 36 psi)	_		
(Solo riding)	Rear	290 kPa (2.90 kgf/cm², 42 psi)	_		
Cold inflation tire pressure	Front	250 kPa (2.50 kgf/cm², 36 psi)	_		
(Dual riding)	Rear	290 kPa (2.90 kgf/cm², 42 psi)	_		
Tire size	Front	120/70 ZR17M/C (58 W)	_		
THE SIZE	Rear	180/55 ZR17M/C (73 W)	_		
Tire type	Front	BRIDGESTONE BATTLAX BT016F G	_		
	Rear	BRIDGESTONE BATTLAX BT016R G	_		
Tire tread depth	Front	_	1.6 mm (0.06 in)		
(Recommended depth)	Rear	_	2.0 mm (0.08 in)		



Suspension Unit: mm (in)

Item		Standard	Limit	
Front fork stroke		_		
Front fork spring free length		238.4 (9.39)	233 (9.2)	
Front fork oil level	8	90 (3.5) 0 (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/lmp oz)	_	
Front fork inner tube O.D		41 (1.6)	_	
Front fork spring adjuster	4	4 turns in from full soft position	_	
Front fork damping force adjuster	Rebound	4 turns out from full hard position	_	
Front fork damping force adjuster	Compression	5 turns out from full hard position	_	
Rear shock absorber spring pre-set length		_		
Door about about or domning force	Rebound	2 turns out from full hard position	_	
Rear shock absorber damping force adjuster	Compression	Lo: 2-1/4 turns out from full hard position Hi: 3 turns out from full hard position	_	
Rear wheel travel	_	_		
Swingarm pivot shaft runout		130 (5.1) —		

Fuel + Oil

Item		Specification				
		Use only unleaded gasoline of at least 90 pump octane (R/2				
	1 /	+ M/2).				
			MTBE (Methyl Tertiary Butyl Ether), less			
Fuel type	than 10% e	thanol, o	r less than 5% methanol with			
	appropriate	cosolver	nts and corrosion inhibitor is permissible.			
	Including		E-33			
	reserve		17 L (4.5/3.7 US/Imp gal)	E-03		
Fuel tank capacity	Fuel level	blink	Approx. 3.9 L (1.0/0.9 US/Imp gal)			
Гиеналк сарасну	indicator					
	light	lighting	Approx. 1.5 L (0.4/0.3 US/Imp gal)			
	lighting					
Engine oil type	SAE 1	SAE 10W-40, API SF/SG or SH/SJ with JASO MA				
	Change		2 200 ml (2.3/1.9 US/Imp qt)			
Engine oil consoity	Filter		2 500 ml (2.6/2.2 US/Imp qt)			
Engine oil capacity	change		2 300 mi (2.0/2.2 03/mp qt)			
	Overhaul		2 900 ml (3.1/2.6 US/Imp qt)			



Engine

Engine			NI	I£	11.4.4
ltem			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	. l la		23	2.3	16.5
CKP sensor rotor/cam chain drive sprocket		4.01	54	5.4	39.0
Cylinder head bolt		10]	31 N⋅m (3.1 kgf-m,		, ,
	[IV	[6]	10 95	1.0 9.5	7.0 68.5
Clutch sleeve hub nut			10		7.0
Clutch spring set bolt				1.0	
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	[M	l9]	18 N·m (1.8 kgf-m,	13.0 lbf-ft) then turr	n in 50°
	[1,46]	Initial	6	0.6	4.5
Cuantina a la la	[M6]	Final	11	1.1	8.0
Crankcase bolt	[M8]	Initial	15	1.5	11.0
		Final	26	2.6	19.0
Oil gallery plug			7	0.7	5.0
3, p3	ſΜ	l6]	10	1.0	7.0
Oil gallery plug		12]	15	1.5	11.0
on ganoty plag			35	3.5	25.5
Oil drain plug		23	2.3	16.5	
Oil gallery jet			27	2.7	19.5
			10	1.0	7.0
Piston cooling oil jet bolt			1	1.0 lbf-ft) then turr	
Conrod cap bolt Oil cooler mounting bolt			15 N·m (1.5 kgi-m,	1.0 lbi-it) then turn	7.0
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 (if equipped)	10	1.0	7.0
EVAP system purge control solenoid valve mounting nut	10	1.0	7.0
(if equipped)			
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	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

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 onut	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 holt	50	5.0	36.0
Side-stand bolt 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	25.5 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 (if equipped)	10	1.0	7.0
Front reflex reflector (if equipped)	1.8	0.18	1.3
Rear reflex reflector nut (if equipped)	1.8	0.18	1.3
Under cowling mounting screw (right side)	6.5	0.65	4.7

