

Features & Specifications

2016 GSX-S1000F ABS



GSX-S1000FAL6

AV4: Glass Sparkle Black /
Candy Daring Red

Introduction

- Born on the racetrack and raised on the street, the 2016 GSX-S1000F ABS is derived from the legendary, championship-winning 2005-2008 generation GSX-R1000. The GSX-S1000 ABS carries the spirit of the Suzuki GSX-R to the street, with shared technology and components packaged into a chassis designed specifically for street riding comfort.
- It's more than just an attitude, a spirit, or a lineage though; it's about performance-packed hard parts evolving from one generation to the next. The GSX-S1000 ABS is powered by a 999cc in-line four-cylinder powerplant that's based on the long-stroke GSX-R1000 engine, which makes for ideal street-riding power and torque curve. Focused on making big power through the low and mid-range, this engine also uses cams optimized to deliver street-dominating power.
- Equipped with a powerful engine, Suzuki's Advanced Traction Control System*, and Brembo brakes fitted with a modern Antilock Brake System**, the GSX-S1000F ABS is a street bike packed with some serious performance. Top that performance off with wild, rugged, and aggressive styling, and you have a sportbike ready to attack and turn heads on the street.

With the GSX-S1000F ABS, Suzuki changes motorcycling for the better, again.

Engine Features

- The strong, four-stroke, liquid-cooled, DOHC, 999cc inline-four engine is designed to provide smooth throttle response and controlled acceleration.
- Long-stroke GSX-R engine design has broad low-to-mid range power and torque that is ideal for street riding.
- The EFI system uses Suzuki's proprietary, SDTV (Suzuki Dual Throttle Valve) throttle bodies where the secondary throttle valves are controlled by a servo motor for smooth power delivery.
- Long tip, 10-hole fuel injectors on each 44mm throttle body improves fuel atomization while the automatic Idle Speed Control (ISC) improves cold starting and stabilizes the engine idle.
- The under-chassis exhaust employs a Suzuki Exhaust Tuning (SET) servo-controlled butterfly valve to enhance torque, response and acceleration while producing an exciting sound.
- The digital ignition fires iridium type spark plugs to create a condensed and hotter spark, yet last longer.
- Suzuki's advanced traction control system* lets the rider to control the throttle with more confidence in various riding conditions. As a result, the rider can enjoy sport riding with less stress and fatigue. The system has three easily selectable modes (good road condition, average condition, poor condition "rain").

Chassis Features

- The lightweight twin-spar aluminum frame and swingarm deliver a superb ride normally reserved for supersport machines.
- The reasonable sport riding position is created by a carefully crafted relationship between the Renthal FatBar, footrests and seat.
- Dual front brakes with fully-floating 310mm discs and BREMBO monobloc calipers. A 240mm rear disc brake with single-piston caliper helps make sure you can have controlled stops.
- The antilock braking system** (ABS) helps the rider stay in control even during hard braking. It monitors wheel speed 50 times per rotation and matches stopping power to available traction.
- Inverted KYB forks feature spring preload plus rebound and compression damping force adjusters.
- Link-type rear suspension, with a single shock absorber features spring preload that is 7-way adjustable with rebound damping adjustment.
- The sports fairing and bodywork is designed to look rugged and aggressive - and provide rider comfort.
- Distinctive full-fairing contains twin 60/55W halogen bulb and position lights. The tail section houses an LED taillight with clear lens.
- Brightness-controllable instruments feature a prominent bar-style tachometer and digital LCD speedometer readout.
- The display also includes traction control icons, gear-position indicator, coolant temperature, fuel level, selectable odometer/dual-tripmeter/fuel consumption display and clock.



GSX-S1000FAL6

YSF: Metallic Triton Blue

Additional Features

- A variety of Genuine Suzuki Accessories for GSX-S owners are available including a large selection of Suzuki logo apparel.
- 12-month limited warranty
- For more details, please visit www.suzukicycles.com.

** The Traction Control System is not a substitute for the rider's throttle control. It cannot prevent loss of traction due to excessive speed when the rider enters a turn and/or applies the brakes. Neither can it prevent the front wheel from losing grip.*

*** 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 GSX-S1000FAL6

E-03: USA, E-33: California

Dimensions and curb mass

Item	Specification	Remark
Overall length	2115 mm (83.3 in)	—
Overall width	795 mm (31.3 in)	—
Overall height	1180 mm (46.5 in)	—
Wheelbase	1460 mm (57.5 in)	—
Ground clearance	140 mm (5.5 in)	—
Seat height	810 mm (31.9 in)	—
Curb mass	214 kg (472 lbs)	E03
	215 kg (474 lbs)	E33

Engine

Item	Specification	Remark
Type	Four-stroke, liquid-cooled, DOHC	—
Number of cylinders	4	—
Bore	73.4 mm (2.890 in)	—
Stroke	59.0 mm (2.323 in)	—
Displacement	999 cm ³ (61.0 cu. in)	—
Compression ratio	12.2 : 1	—
Fuel system	Fuel injection	—
Air cleaner	Paper element	—
Starter system	Electric	—
Lubrication system	Wet sump	—
Idle speed	1150 ± 100 r/min	—

Drive train

Item	Specification	Remark
Clutch	Wet multi-plate type	—
Transmission	6-speed constant mesh	—
Gearshift pattern	1-down, 5-up	—
Primary reduction ratio	1.553 (73/47)	—
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	2.588 (44/17)	—
Drive chain	RK525GSH, 116 links	—

Specifications GSX-S1000FAL6

E-03: USA, E-33: California

Chassis

Item	Specification	Remark
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)	—
Steering angle	31° (right and left)	—
Caster	25°	—
Trail	100 mm (3.9 in)	—
Turning radius	3.1 m (10.2 ft)	—
Front brake	Disc brake, twin	—
Rear brake	Disc brake	—
Front tire size	120/70ZR17M/C (58W), tubeless	—
Rear tire size	190/50ZR17M/C (73W), tubeless	—

Electrical

Item	Specification	Remark
Ignition type	Electronic ignition (Transistorized)	—
Spark plug	NGK CR9EIA-9 or DENSO IU27D	—
Battery	12 V 36.0 kC (10 Ah)/10 HR	—
Generator	Three-phase A.C. generator	—
Main fuse	30 A	—
Fuse	10/10/10/10/10/15 A	—
ABS fuse	20/15 A	—
Headlight	12 V 55 W (H7) x 2	—
Brake light/Tail light	LED	—
Turn signal light	12 V 21 W x 4	—
License plate light	12 V 5 W	—
Instrument panel light	LED	—
Neutral indicator light	LED	—
High beam indicator light	LED	—
Turn signal indicator light	LED	—
Oil pressure/Coolant temperature indicator light	LED	—
MIL	LED	—
Traction control system indicator light	LED	—
ABS indicator light	LED	—

Capacities

Item	Specification	Remark
Fuel tank	17.0 L (4.5 US gal, 3.7 Imp gal)	—
Engine oil	Oil change	2800 ml (3.0 US qt, 2.5 Imp qt)
	With filter change	3200 ml (3.4 US qt, 2.8 Imp qt)
Engine coolant	2.8 L (3.0 US qt, 2.5 Imp qt)	—

Service Data GSX-S1000FAL6

E-03: USA, E-33: California

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Emission Control Devices

Item	Specification	Standard	Limit
EVAP system purge control solenoid valve power supply voltage	E33	Battery voltage	
EVAP system purge control solenoid valve resistance	E33 20 °C (68 °F)	30 – 34 Ω	
PAIR control solenoid valve power supply voltage		Battery voltage	
PAIR control solenoid valve resistance	20 – 30 °C (68 – 86 °F)	20 – 24 Ω	

Engine Electrical Devices

Item	Specification	Standard	Limit
AP sensor power supply voltage		4.75 – 5.25 V	—
AP sensor output voltage	Idle speed at 1 atm.	Approx. 2.8 V	—
IAP sensor power supply voltage		4.75 – 5.25 V	—
IAP sensor output voltage	Idle speed at 1 atm.	Approx. 2.7 V	—
IAT sensor power supply voltage		4.5 – 5.5 V	—
IAT sensor output voltage		0.15 – 4.85 V	—
IAT sensor resistance	0 °C (32 °F)	5400 – 6600 Ω	—
	80 °C (176 °F)	290 – 390 Ω	—
ECT sensor power supply voltage		4.5 – 5.5 V	—
ECT sensor resistance	–20 °C (–4 °F)	13840 – 16330 Ω	—
	20 °C (68 °F)	2320 – 2590 Ω	
	80 °C (176 °F)	310 – 326 Ω	
TP sensor power supply voltage		4.5 – 5.5 V	—
TP sensor output voltage	Closed	1.10 – 1.14 V	—
	Opened	Approx. 4.5 V	
STP sensor power supply voltage		4.5 – 5.5 V	—
STP sensor output voltage	Closed	0.57 – 0.67 V	—
	Opened	Approx. 4.5 V	
ISC valve resistance	20 °C (68 °F)	Approx. 20 Ω	—
HO2 sensor output voltage	Idle speed	0.6 V or less	—
	5000 r/min	0.6 V or more	
HO2 sensor heater power supply voltage		Battery voltage	—
HO2 sensor heater resistance	23 °C (73.4 °F)	11.5 – 17.5 Ω	—
CKP sensor peak voltage	When cranking	0.5 V or more	—
CKP sensor resistance	20 °C (68 °F)	Approx. 168 Ω	—
TO sensor power supply voltage		4.5 – 5.5 V	—
TO sensor output voltage	Normal	0.4 – 1.4 V	—
	Leaning 65°	3.7 – 4.4 V	
TO sensor resistance		16500 – 22300 Ω	—
ECM power supply voltage		Battery voltage	—

Engine Mechanical

Item	Specification		Standard	Limit
Throttle body I.D. No.	E33		04K1	—
	E03		04K0	—
Throttle body bore size			44 mm (1.7 in)	—
Throttle cable play			2.0 – 4.0 mm (0.079 – 0.157 in)	—
Idle speed	When engine warmed		1150 ± 100 r/min	—
Fast idle speed			1150 – 2000 r/min	—
STVA resistance			Approx. 7.8 Ω	—
Compression pressure			1300 – 1700 kPa (13.3 – 17.3 kgf/cm ² , 188 – 246 psi)	1000 kPa (10.2 kgf/cm ² , 145 psi)
Compression pressure difference			—	200 kPa (2 kgf/cm ² , 28 psi)
Cam height	Intake		36.78 – 36.83 mm (1.448 – 1.450 in)	36.48 mm (1.437 in)
	Exhaust		36.63 – 36.68 mm (1.443 – 1.444 in)	36.33 mm (1.431 in)
Camshaft journal oil clearance	Intake		0.032 – 0.066 mm (0.0013 – 0.0025 in)	0.150 mm (0.0059 in)
	Exhaust		0.032 – 0.066 mm (0.0013 – 0.0025 in)	0.150 mm (0.0059 in)
Camshaft journal holder I.D.	Intake		24.012 – 24.025 mm (0.9454 – 0.9458 in)	—
	Exhaust		24.012 – 24.025 mm (0.9454 – 0.9458 in)	
Camshaft journal O.D.	Intake		23.959 – 23.980 mm (0.9433 – 0.9440 in)	—
	Exhaust		23.959 – 23.980 mm (0.9433 – 0.9440 in)	
Camshaft runout	Intake & Exhaust		—	0.10 mm (0.004 in)
Cam chain pin	At arrow "3"		14th pin	—
Valve clearance	When engine cold	Intake	0.10 – 0.20 mm (0.0040 – 0.0078 in)	—
		Exhaust	0.20 – 0.30 mm (0.0079 – 0.0118 in)	
Valve diameter	Intake		30 mm (1.2 in)	—
	Exhaust		24 mm (0.94 in)	
Valve stem runout	Intake & Exhaust		—	0.05 mm (0.0019 in)
Valve head radial runout	Intake & Exhaust		—	0.03 mm (0.0011 in)
Valve head thickness	Intake		—	0.5 mm (0.019 in)
	Exhaust		—	0.5 mm (0.019 in)
Valve stem O.D.	Intake		4.475 – 4.490 mm (0.1762 – 0.1767 in)	—
	Exhaust		4.455 – 4.470 mm (0.1754 – 0.1759 in)	—
Valve seat width	Intake		0.9 – 1.1 mm (0.036 – 0.043 in)	—
	Exhaust		0.9 – 1.1 mm (0.036 – 0.043 in)	—

Item	Specification		Standard	Limit
Valve guide I.D.	Intake		4.500 – 4.512 mm (0.1772 – 0.1776 in)	—
	Exhaust		4.500 – 4.512 mm (0.1772 – 0.1776 in)	—
Valve guide to valve stem clearance	Intake		0.010 – 0.037 mm (0.0004 – 0.0014 in)	—
	Exhaust		0.030 – 0.057 mm (0.0012 – 0.0022 in)	—
Valve spring free length	Intake		—	37.3 mm (1.47 in)
	Exhaust		—	37.3 mm (1.47 in)
Valve spring pre-load	When compressed to 33.55 mm (1.321 in)	Intake	141 – 163 N (14.4 – 16.6 kgf, 31.7 – 36.6 lbs)	—
		Exhaust	141 – 163 N (14.4 – 16.6 kgf, 31.7 – 36.6 lbs)	—
Cylinder head distortion			—	0.20 mm (0.0078 in)
Cylinder distortion			—	0.20 mm (0.0078 in)
Cylinder bore			73.400 – 73.415 mm (2.8898 – 2.8903 in)	No nicks or Scratches
Piston diameter	Measure at 8 mm (0.3 in) from the skirt end.		73.370 – 73.385 mm (2.8886 – 2.8891 in)	73.280 mm (2.8851 in)
Piston to cylinder clearance			0.025 – 0.035 mm (0.0010 – 0.0013 in)	0.120 mm (0.0047 in)
Piston ring to groove clearance	1st		—	0.180 mm (0.0070 in)
	2nd		—	0.150 mm (0.0059 in)
Piston ring groove width	1st		0.81 – 0.83 mm (0.0319 – 0.0326 in)	—
	2nd		0.81 – 0.83 mm (0.0319 – 0.0326 in)	—
	Oil		1.51 – 1.53 mm (0.0595 – 0.0602 in)	—
Piston ring thickness	1st		0.77 – 0.79 mm (0.0304 – 0.0311 in)	—
	2nd		0.77 – 0.79 mm (0.0304 – 0.0311 in)	—
Piston ring free end gap	1st		Approx. 9 mm (0.4 in)	7.2 mm (0.29 in)
	2nd		Approx. 8 mm (0.3 in)	6.4 mm (0.26 in)
Piston ring end gap	1st		0.06 – 0.18 mm (0.0024 – 0.0070 in)	0.50 mm (0.019 in)
	2nd		0.06 – 0.18 mm (0.0024 – 0.0070 in)	0.50 mm (0.019 in)
Piston pin bore I.D.			16.002 – 16.008 mm (0.6300 – 0.6302 in)	16.030 mm (0.6311 in)
Piston pin O.D.			15.995 – 16.000 mm (0.6298 – 0.6299 in)	15.980 mm (0.6292 in)
Conrod small end I.D.			16.010 – 16.018 mm (0.6304 – 0.6306 in)	16.040 mm (0.6314 in)
Conrod big end side clearance			0.10 – 0.20 mm (0.0040 – 0.0078 in)	0.3 mm (0.011 in)
Conrod big end width			19.95 – 20.00 mm (0.7855 – 0.7874 in)	—

Item	Specification	Standard	Limit
Conrod big end I.D.		38.000 – 38.016 mm (1.4961 – 1.4966 in)	—
Conrod big end oil clearance		0.040 – 0.064 mm (0.0016 – 0.0025 in)	0.080 mm (0.0031 in)
Crank pin width		20.10 – 20.15 mm (0.7914 – 0.7933 in)	—
Crank pin O.D.		34.976 – 35.000 mm (1.3770 – 1.3779 in)	—
Crank pin bearing thickness		1.476 – 1.492 mm (0.0582 – 0.0587 in)	—
Crankshaft journal O.D.		34.982 – 35.000 mm (1.3773 – 1.3779 in)	—
Crankshaft journal oil clearance		0.010 – 0.028 mm (0.0004 – 0.0011 in)	0.080 mm (0.0031 in)
Crankcase journal I.D.		38.000 – 38.018 mm (1.4961 – 1.4967 in)	—
Crankcase journal bearing thickness		1.492 – 1.507 mm (0.0588 – 0.0593 in)	—
Crankshaft thrust bearing thickness	Right side	2.42 – 2.44 mm (0.0953 – 0.0960 in)	—
	Left side	2.36 – 2.50 mm (0.0930 – 0.0984 in)	—
Crankshaft thrust clearance		0.060 – 0.110 mm (0.0024 – 0.0043 in)	—
Crankshaft runout		—	0.05 mm (0.0019 in)
Balancer journal oil clearance		0.028 – 0.052 mm (0.0011 – 0.0020 in)	0.080 mm (0.0031 in)
Balancer journal O.D.		22.976 – 22.992 mm (0.9046 – 0.9051 in)	—

Engine Lubrication System

Item	Specification	Standard	Limit
Oil pressure	At 60 °C (140 °F), 3000 r/min	100 – 400 kPa (1.0 – 4.1 kgf/cm ² , 14.5 – 58.0 psi)	—
Necessary amount of engine oil	Oil change	2800 ml (3.0 US qt, 2.5 Imp qt)	—
	Oil and filter change	3200 ml (3.4 US qt, 2.8 Imp qt)	
	Engine overhaul	3400 ml (3.6 US qt, 3.0 Imp qt)	

Cooling System

Item	Specification	Standard	Limit
Engine coolant	Engine side	Approx. 2500 ml (5.28 US qt, 4.40 Imp qt)	—
	Reservoir tank side	Approx. 250 ml (0.53 US qt, 0.44 Imp qt)	
Radiator cap valve opening pressure		107.9 – 137.3 kPa (1.1 – 1.4 kgf/cm ² , 15.7 – 19.9 psi)	—
Cooling fan relay power supply voltage		Battery voltage	—
Cooling fan operating temperature	OFF → ON	Approx. 105 °C (221 °F)	—
	ON → OFF	Approx. 100 °C (212 °F)	
Thermostat valve opening temperature		Approx. 82 °C (179.6 °F)	—
Thermostat valve lift	95 °C (203 °F)	8 mm (0.3 in) or more	—

Fuel System

Item	Specification	Standard	Limit
Fuel injector power supply voltage		Battery voltage	
Fuel injector resistance	20 °C (68 °F)	11.5 – 12.5 Ω	—
FP relay power supply voltage		Battery voltage	—
FP discharge amount	Per 10 seconds	223 ml (7.55 US oz, 7.85 Imp oz) or more	—
Fuel pressure regulator operating set pressure		289 – 299 kPa (2.95 – 3.04 kgf/cm ² , 42.0 – 43.3 psi)	—

Ignition System

Item	Specification	Standard	Limit
Firing order		1-2-4-3	—
Spark plug	Type	NGK: CR9EIA-9 / DENSO: IU27D	—
	Gap	0.8 – 0.9 mm (0.032 – 0.035 in)	—
Spark performance	At 1 atm	8 mm (0.3 in) or more	—
Ignition coil primary peak voltage		80 V or more	—
Ignition coil resistance	Primary	10 – 30 °C (50 – 86 °F)	1.1 – 1.9 Ω
	Secondary		6400 – 9600 Ω

Starting System

Item	Specification	Standard	Limit
Starter motor brush length		12 mm (0.47 in)	8.5 mm (0.33 in)
Starter relay resistance		3 – 6 Ω	—
Side-stand switch voltage	ON (Side-stand retracted)	0.4 – 0.6 V	—
	OFF (Side-stand on the ground)	1.4 V or more	

Charging System

Item	Specification	Standard	Limit
Battery leakage current		3 mA or less	—
Regulated voltage	Charging output	At 5000 r/min	14.0 – 15.5 V
Generator coil resistance	20 °C (68 °F)		0.12 – 0.18 Ω
Generator no-load voltage	When engine cold	At 5000 r/min	65 V (AC) or more
Recharging time	Standard charging		1.2 A for 5 to 10 hours
	Fast charging		5 A for 1 hour
Generator Max. output	At 5000 r/min		Approx. 385 W
Battery	Type designation		FT12A-BS
	Capacity		12 V 36.0 kC (10Ah)/10 HR

Exhaust System

Item	Specification	Standard	Limit
EXCVA position sensor power supply voltage		4.5 – 5.5 V	—
EXCVA position sensor output voltage	Closed	0.45 – 1.40 V	—
	Opened	3.60 – 4.55 V	
EXCVA position sensor resistance	At adjustment position		Approx. 3100 Ω

Front Suspension

Item	Specification	Standard	Limit
Front fork inner tube O.D.		43 mm (1.7 in)	—
Front fork oil level	Without spring, outer tube fully compressed	91 mm (3.6 in)	—
Front fork spring free length		271.1 mm (10.67 in)	265 mm (10.5 in)
Front fork oil capacity	Each leg	523 ml (17.68 US oz, 18.41 Imp oz)	—
Front fork spring adjuster		10 mm (0.39 in)	—
Front fork damping force adjuster	Rebound side	8 clicks counterclockwise from stiffest position	—
	Compression side	8 clicks counterclockwise from stiffest position	

Rear Suspension

Item	Specification	Standard	Limit
Rear shock absorber spring adjuster		3rd position	—
Rear shock absorber damping force adjuster	Rebound side	1 turn counterclockwise from stiffest position	—
Swingarm pivot shaft runout		—	0.3 mm (0.011 in)

Wheels and Tires

Item	Specification		Standard	Limit
Wheel rim runout	Front	Axial & Radial	—	2.0 mm (0.08 in)
	Rear	Axial & Radial	—	2.0 mm (0.08 in)
Wheel axle runout	Front		—	0.25 mm (0.010 in)
	Rear		—	0.25 mm (0.010 in)
Tire size	Front		120/70ZR17M/C (58W)	—
	Rear		190/50ZR17M/C (73W)	
Tire type	Front		DUNLOP/D214F M	—
	Rear		DUNLOP/D214 M	
Tire tread depth (Recommended depth)	Front		—	1.6 mm (0.062 in)
	Rear		—	2.0 mm (0.078 in)
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)	
	Dual riding	Front	250 kPa (2.50 kgf/cm ² , 36 psi)	—
		Rear	290 kPa (2.90 kgf/cm ² , 42 psi)	
Wheel rim size	Front		17 M/C x MT 3.50	—
	Rear		17 M/C x MT 6.00	

Drive Chain / Drive Train / Drive Shaft

Item	Specification	Standard	Limit
Drive chain	Type	RK525GSH	—
	Links	116 links	—
Drive chain 20-pitch length		—	319.4 mm (12.57 in)
Drive chain slack	On side-stand	20 – 30 mm (0.79 – 1.18 in)	—

Brake Control System and Diagnosis

Item	Specification	Standard	Limit
Rear brake pedal height		50 – 60 mm (2.0 – 2.3 in)	—
Master cylinder bore / piston diameter	Front	Approx. 19.1 mm (0.752 in)	—
	Rear	Approx. 14.0 mm (0.551 in)	

Front Brakes

Item	Specification	Standard	Limit
Front brake disc thickness		5.0 mm (0.20 in)	4.5 mm (0.18 in)
Front brake disc runout		—	0.30 mm (0.012 in)
Front brake caliper cylinder bore / piston diameter		Approx. 32 mm (1.3 in)	—

Rear Brakes

Item	Specification	Standard	Limit
Rear brake disc thickness		5.0 mm (0.20 in)	4.5 mm (0.18 in)
Rear brake disc runout		—	0.30 mm (0.012 in)
Rear brake caliper cylinder bore / piston diameter		Approx. 38.2 mm (1.50 in)	—

ABS

Item	Specification	Standard	Limit
Wheel speed sensor – sensor rotor clearance	Front	0.38 – 1.05 mm (0.0150 – 0.0413 in)	—
	Rear	0.42 – 1.08 mm (0.0166 – 0.0425 in)	—

Manual Transmission

Item	Specification	Standard	Limit
Gearshift fork to groove clearance	No.1	0.1 – 0.3 mm (0.004 – 0.011 in)	0.5 mm (0.019 in)
	No.3	0.1 – 0.3 mm (0.004 – 0.011 in)	0.5 mm (0.019 in)
Gearshift fork groove width	No.1	5.0 – 5.1 mm (0.197 – 0.200 in)	—
	No.3	5.0 – 5.1 mm (0.197 – 0.200 in)	
Gearshift fork thickness	No.1	4.8 – 4.9 mm (0.189 – 0.192 in)	—
	No.3	4.8 – 4.9 mm (0.189 – 0.192 in)	
Gearshift lever height		45 – 55 mm (1.8 – 2.1 in)	—
GP switch power supply voltage		4.5 – 5.5 V	—
GP switch voltage	From 1st to Top	0.6 V or more	—

Clutch

Item	Specification	Standard	Limit
Clutch lever play		10 – 15 mm (0.4 – 0.6 in)	—
Clutch release screw		1/2 turn counterclockwise	—
Drive plate thickness		2.72 – 2.88 mm (0.107 – 0.113 in)	2.42 mm (0.0953 in)
Drive plate claw width		13.85 – 13.96 mm (0.5453 – 0.5496 in)	13.35 mm (0.5256 in)
Driven plate distortion		—	0.10 mm (0.0039 in)
Clutch spring free length		66.7 mm (2.63 in)	63.4 mm (2.50 in)

Steering / Handlebar

Item	Specification	Standard	Limit
Steering tension initial force		2 – 5 N (0.21 – 0.50 kgf, 0.50 – 1.12 lbf)	—

Wiring Systems

Item	Specification	Standard	Limit	
Fuse size	Headlight	HI	10 A	—
		LO	10 A	—
	Ignition	10 A	—	
	Signal	10 A	—	
	Fuel	10 A	—	
	Fan	15 A	—	
	Main	30 A	—	
	ABS motor	20 A	—	
ABS valve	15 A	—		

Lighting Systems

Item	Specification	Standard	Limit
Headlight	HI	12 V 55 W (H7)	—
	LO	12 V 55 W (H7)	—
Position light (If equipped)		LED	—
Brake light/Taillight		LED	—
Turn signal light		12 V 21 W × 4	—
License plate light		12 V 5 W	—

Combination Meter / Fuel Meter / Horn

Item	Specification	Standard	Limit
Speed sensor power supply voltage (Without ABS)	Front	Battery voltage	—
	Rear	Battery voltage	—
Instrument panel light		LED	—
Turn signal indicator light		LED × 2	—
High beam indicator light		LED	—
Neutral indicator light		LED	—
Oil pressure indicator light/Engine coolant temp. indicator light		LED	—
MIL		LED	—
Traction control system indicator light		LED	—
ABS indicator light		LED	—