Features & Specifications 2016 Hayabusa



A9Z: Candy Daring Red / Metallic Mystic Silver

Key Features

- 1340cc, 4-stroke, liquid-cooled, 4-cylinder, DOHC engine.
- Twin Lightweight Brembo Monobloc front brake calipers with ABS.
- Suzuki Drive Mode Selector (S-DMS).
- Sleek, aerodynamically effective styling.

Engine Features

- Powerful 1340cc in-line 4-cylinder fuel-injected, liquid-cooled DOHC engine built to deliver a broad wave of torgue for effortless acceleration.
- Forged three-ring aluminum-alloy slipper pistons provide superior strength, while PVD-coated rings reduce friction and improve cylinder sealing.
- The chrome nitride Physical Vapor Deposition (PVD) piston ring coating is harder and smoother than conventional chrome plating, reducing friction while improving sealing to the cylinder.
- Suzuki Composite Electrochemical Material (SCEM) cylinder plating improves heat dissipation, durability and ring seal.
- U-shaped cutouts in the cylinder-bore sides allow air pressure created by descending pistons to escape to adjacent cylinders to reduce internal pumping pressure and mechanical power losses.
- Lightweight titanium valves allow use of light valve springs and high lift while maintaining accurate valve control.
- Iridium spark plugs produce more complete combustion and last longer than conventional plugs.
- Curved radiator with a compact, dense-core design and two ECM-controlled electric fans keep the engine temperature stable.
- Suzuki Clutch Assist System (SCAS) serves as back-torque-limiting system for smooth downshifts and also contributes to a light clutch pull.
- Close ratio, constant-mesh 6-speed transmission uses dedicated oil spray to the 4th, 5th and 6th gears to reduce friction, wear and mechanical noise during high-speed operation.
- Suzuki's advanced fuel-injection system with tapered, 44mm double-barrel Suzuki Dual Throttle Valve (SDTV) induction improves combustion efficiency and smooths throttle response.

- Two 12-hole fine-spray injectors on each throttle body improve fuel atomization for better combustion efficiency while reducing fuel consumption.
- Idle Speed Control (ISC) system improves cold starting and helps maintain stable engine idle under a variety of conditions.
- Suzuki Pulsed-secondary AIR-injection (PAIR) system ignites unburned hydrocarbons (HC) and reduces carbon monoxide (CO) emissions.
- Large-volume catalyzer in the twin-silencer exhaust permits high flow while further reducing HC, CO and nitrogen oxide (NOx) emissions.
- Suzuki Drive Mode Selector (S-DMS) lets riders select engine power output to match preferences or riding conditions.



AA3: Metallic Thunder Gray / Glass Sparkle Black

Chassis Features

- Twin-spar aluminum-alloy frame built with castings and extrusions to produce a balance or lightweight and strength.
- Rear sub-frame made of rectangular steel tubing for ample weight carrying capacity.
- KYB inverted cartridge forks feature Diamond-Like Carbon (DLC) coating on the 43mm stanchion tubes to reduce friction and improve reaction to small road surface irregularities.
- The front forks and the single rear shock absorber both have fully adjustable spring preload, compression and rebound damping.
- Standard-equipment steering damper quells unwanted vibration and steering forces.
- Three-spoke cast-aluminum-alloy wheels shod with 120/70ZR17M/C (58W) front and 190/50ZR17M/C (73W) rear radial tires.
- Dual 310mm (12.2 inch) floating-brake rotors are mated with radial-mount Brembo monobloc front brake calipers. The calipers are lighter and more rigid than conventional bolt-together calipers, deliver better feedback, and are fitted with larger pistons that increase initial bite for greater controllability. The hollow-type mounting bolts further reduce weight.
- Solo 260mm (10.2 inch) rotor is grabbed by a single-piston rear brake caliper.
- The standard equipment Antilock Brake System (ABS)* unit features a lightweight, compact design. The ABS enhances brake performance by helping prevent, to a certain extent, wheel locking due to changes in road conditions or excessive braking, by matching stopping power to available traction.

- Radical aerodynamic styling and smooth bodywork provides the Hayabusa its distinctive look, protects the rider from the wind, and improves fuel efficiency.
- Advanced aerodynamics offering superb wind protection both for normal and completely tucked-in seating positions.
- Integrated front turn signals form the outer edges of the functional ram-air-intake scoop.
- Vertically stacked headlight featuring a projector high beam and a halogen-bulb multi-reflector low beam.
- Unique tail section featuring streamlined bulges that integrate the rear turn signals.
- Bright, durable LED taillight, with clear inner lens and red outer lens.
- Four analog gauges including step-motor-driven tachometer and speedometer. Round LCD panel includes clock, gear position indicator, S-DMS map indicator, odometer and dual trip meters. Engine-rpm indicator, programmable to blink or stay on between 4,000 and 11,500 rpm.
- Silver metallic trim around the analog gauges and LCD panel match the styling of race-specification meters.



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.
- Quality details abound with passenger foot-peg brackets, muffler hangers, rider foot-peg and control brackets that evoking the fine art of feudal Japanese armor, Yoroi-Kabuto.
- A variety of Genuine Suzuki Accessories for Hayabusa owners are available including a large selection of Suzuki logo apparel.
- 12-month limited warranty
- For more details, please visit <u>www.suzukicycles.com</u>.

* 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.

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Specifications GSX1300RAL6 E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length	2190 mm (86.2 in)
Overall width	735 mm (28.9 in)
Overall height	
Wheelbase	
Ground clearance	
Seat height	
Curb mass	

ENGINE

Туре	4-stroke, Liquid-cooled, DOHC
Number of cylinders	
Bore	81.0 mm (3.189 in)
Stroke	65.0 mm (2.559 in)
Displacement	1340 cm ³ (81.8 cu. in)
Compression ratio	12.5 : 1
Fuel system	Fuel injection
Air cleaner	Paper element
Starter system	Electric
Lubrication system	Wet sump
Idle speed	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	1.596 (83/52)
Gear ratios, Low	2.615 (34/13)
2nd	1.937 (31/16)
3rd	1.526 (29/19)
4th	1.285 (27/21)
5th	1.136 (25/22)
Тор	1.043 (24/23)
Final reduction ratio	2.388 (43/18)
Drive chain	RK GB50GSV Z4, 114 links

CHASSIS

Front suspension	
Rear suspension	Link type, coil spring, oil damped
Front suspension stroke	120 mm (4.7 in)
Rear wheel travel	140 mm (5.5 in)
Caster	
Trail	
Steering angle	
Turning radius	
Front brake	Disc brake, twin
Rear brake	
Front tire	
Rear tire	

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Specifications GSX1300RAL6 E-03: USA, E-33: California

ELECTRICAL	
Ignition type	Electronic ignition (Transistorized)
Ignition timing	5° B.T.D.C. at 1150 r/min
Spark plug	NGK CR9EIA-9 or DENSO IU27D
Battery	12V 36.0 kC (10Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30A
Fuse	30/15/15//15/10/10/10/10A
Headlight	12V 65W (H9)High beam
	12V 55W (H7)Low beam
Position light	12V 5W × 2
Brake/Tail light	LED
Turn signal light	12V 21W
License plate light	12V 5W
Speedometer light	LED
Tachometer light	LED
Neutral indicator light	
High beam indicator light	
Turn signal indicator light	
Engine coolant temperature indicator light	
Oil pressure indicator light	LED
Fuel level indicator light	LED
FI indicator light	LED
Engine R.P.M. indicator light	LED
ABS indicator light	LED

CAPACITIES

Fuel tank	20.0 L (5.3/4.4 US/Imp gal)E-33
	21.0 L (5.5/4.6 US/Imp gal)E-03
Engine oil, oil change	3100 ml (3.3/2.7 US/Imp qt)
with filter change	
overhaul	4000 ml (4.2/3.5 US/Imp qt)
Coolant	3.0 L (3.1/2.6 US/Imp qt)

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Service Data GSX1300RAL6 E-03: USA, E-33: California

Valve + Guide

Unit: mm (in)

Item		Standard	Limit
Valve diam.	IN.	33 (1.30)	_
valve diam.	EX.	27.5 (1.08)	_
Valva algorange (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.	5.000 – 5.012 (0.1969 – 0.1973)	—
Valve stem O.D.	IN.	4.975 – 4.990 (0.1959 – 0.1965)	—
	EX.	4.955 – 4.970 (0.1951 – 0.1957)	—
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.	_	42.3 (1.67)
Valve spring tension	IN. & EX.	Approx. 137 N (14.0 kgf, 30.8 lbs) at length 36.6 mm (1.44 in)	_

Camshaft + Cylinder Head

Unit: mm (in)

Item		Standard		
Cam height	IN.	36.98 – 37.02 (1.456 – 1.457)	36.68 (1.444)	
Camineigni	EX.	36.58 – 36.62 (1.440 – 1.442)	36.28 (1.428)	
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")	15th pin		_	
Cylinder head distortion	—		0.20 (0.008)	

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

ltem		Standard	Limit
Compression pressure	1 400 – 1	1 000 kPa (10 kgf/cm², 142 psi)	
Compression pressure difference		—	200 kPa (2 kgf/cm², 28 psi)
Piston-to-cylinder clearance		0.035 – 0.045 (0.0014 – 0.0018)	0.120 (0.0047)
Cylinder bore	8	1.000 – 81.015 (3.1890 – 3.1896)	No nicks or Scratches
Piston diam.		0.960 – 80.975 (3.1874 – 3.1880) ure 15 mm (0.6 in) from the skirt end.	80.880 (3.1842)
Cylinder distortion		—	0.20 (0.008)
Piston ring free end gap	1st —	Approx. 6.5 (0.26)	5.2 (0.20)
Tiston ning nee end gap	2nd 2T	Approx. 9.0 (0.35)	7.2 (0.28)
Piston ring end gap	1st — 2nd 2T	0.06 - 0.18 (0.002 - 0.007)	0.50 (0.020)
Diston ring to groove closropeo	1st	_	0.180 (0.0071)
Piston ring-to-groove clearance	2nd	_	0.150 (0.0059)
Piston ring groove width	1st	0.83 - 0.85 (0.0327 - 0.0335) 1.30 - 1.32 (0.0512 - 0.0520)	_
Fision mig groove width	2nd	1.01 – 1.03 (0.0398 – 0.0406)	—
	Oil	2.01 – 2.03 (0.0791 – 0.0799)	—
	1st	0.76 - 0.81 (0.0299 - 0.0319)	
Piston ring thickness	151	1.08 – 1.10 (0.0425 – 0.0433)	
	2nd	0.97 - 0.99 (0.0382 - 0.0390)	—
Piston pin bore	1	8.002 – 18.008 (0.7087 – 0.7090)	18.030 (0.7098)
Piston pin O.D.	1	7.996 – 18.000 (0.7085 – 0.7087)	17.980 (0.7079)

Conrod + Crankshaft

Unit: mm (in)

Item		Limit	
Conrod small end I.D.	18	3.010 – 18.018 (0.7091 – 0.7094)	18.040 (0.7102)
Conrod big end side clearance		0.10 - 0.20 (0.004 - 0.008)	0.3 (0.012)
Conrod big end width		20.95 - 21.00 (0.825 - 0.827)	—
Crank pin width		21.10 - 21.15 (0.831 - 0.833)	—
Conrod big end oil clearance	0.032 - 0.056 (0.0013 - 0.0022)		0.080 (0.0031)
Crank pin O.D.	37.976 - 38.000 (1.4951 - 1.4960)		—
Crankshaft journal oil clearance	0.010 - 0.028 (0.0004 - 0.0011)		0.080 (0.0031)
Crankshaft journal O.D.	39.982 - 40.000 (1.5741 - 1.5748)		—
Crankshaft thrust bearing thickness	Right side	2.425 – 2.450 (0.0955 – 0.0965)	—
Clairkshalt thrust bearing thickness	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)

Oil Pump

Item	Standard	Limit
	200 – 500 kPa	
Oil pressure (at 60 °C, 140 °F)	(2.0 – 5.0 kgf/cm², 28.4 – 71.1 psi)	—
	at 3 000 r/min	

Clutch

Unit: mm (in)

Item		Limit	
Clutch drive plate thickness	No. 1	2.92 – 3.08 (0.115 – 0.121)	2.62 (0.103)
Clutch drive plate thekness	No. 2 & 3	3.72 – 3.88 (0.146 – 0.153)	3.42 (0.135)
Clutch drive plate claw width	No. 1	13.85 – 13.96 (0.542 – 0.550)	13.05 (0.514)
	No. 2 & 3	13.90 - 14.00 (0.547 - 0.551)	13.10 (0.516)
Clutch driven plate distortion			0.10 (0.004)
Clutch spring free length	37.13 (1.462)		35.3 (1.39)
Clutch master cylinder bore	14.000 – 14.043 (0.5512 – 0.5529)		_
Clutch master cylinder piston diam.	13.957 – 13.984 (0.5495 – 0.5506)		—
Clutch release cylinder bore	33.600 – 33.662 (1.3228 – 1.3253)		—
Clutch release cylinder piston diam.	33.550 – 33.575 (1.3209 – 1.3218)		—
Clutch fluid type	Brake fluid DOT 4		—

Drive Train

Unit: mm (in) Except ratio

Item			Standard	Limit
Primary reduction ratio			1.596 (83/52)	
Final reduction ratio			2.388 (43/18)	—
	Low		2.615 (34/13)	—
	2nd		1.937 (31/16)	_
Gear ratios	3rd		1.526 (29/19)	
	4th		1.285 (27/21)	
	5th		1.136 (25/22)	
	Тор		1.043 (24/23)	
Shift fork to groove clea	arance		0.1 - 0.3 (0.004 - 0.012)	0.5 (0.02)
Shift fork groove width			5.0 – 5.1 (0.197 – 0.201)	_
Shift fork thickness			4.8 – 4.9 (0.189 – 0.193)	
		Туре	RK GB50GSVZ4	—
Drive chain		Links	114 links	—
		20-pitch length	_	319.4 (12.57)
Drive chain slack (on si	de-stand)		20-30 (0.8-1.2)	—
Gearshift lever height			50 - 60 (2.0 - 2.4)	—

Thermostat + Radiator + Fan + Coolant

ltem		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)	_
	20 °C (68 °F)	Approx. 2.45 kΩ	_
ECT sensor resistance	50 °C (122 °F)	Approx. 0.811 kΩ	_
	80 °C (176 °F) Approx. 0.318 kΩ		_
	110 °C (230 °F)	Approx. 0.142 kΩ	_
Radiator cap valve opening pressure	93 – 123 kPa (0.93 – 1.23 kgf/cm², 13.2 – 17.5 psi)		_
Cooling fan operating temperature	$OFF \rightarrow ON$	Approx. 105 °C (221 °F)	_
	$ON \rightarrow OFF$	Approx. 100 °C (212 °F)	<u> </u>
Engine coolant type	Use an anti-fre radiator.	_	
Engine coolant including reserve	Reserve tank side	Approx. 250 ml (0.3/0.2 US/Imp qt)	_
	Engine side	Approx. 2 700 ml (2.9/2.4 US/Imp qt)	

Injector + Fuel Pump + Fuel Pressure Regulator

ltem	Specification	Note
Injector resistance	11 – 13 Ω at 20 °C (68 °F)	
Fuel pump discharge amount	220 ml (7.4/7.7 US/Imp oz) and more/10 sec.	
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm², 43 psi)	

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FI Sensors

Item		Standard/Specification	Note
CKP sensor resistance		180 – 280 Ω	
CKP sensor peak voltage		3.0 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. 4.3 V	
ECT sensor input voltage		4.5 – 5.5 V	
ECT sensor output voltage		0.15 – 4.85 V	
ECT sensor resistance	A	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	A	Approx. 2.58 k Ω at 20 °C (68 °F)	
AP sensor input voltage		4.5 – 5.5 V	
AP sensor output voltage	App	prox. 3.6 V at 100 kPa (760 mmHg)	
TO sensor resistance		16.5 – 22.3 kΩ	
TO concert 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		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 3 000 r/min	
HO2 sensor heater resistance		Approx. 8 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	Approx. 0.5 V	
STP sensor output voltage	Opened	Approx. 3.9 V	
STVA resistance		Approx. 6.5 Ω	
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)	

Throttle Body

Item	Specification
Bore size	44 mm (1.73 in)
I.D. No.	15H3 (For E-33), 15H2 (For E-03)
Idle r/min	1 150 ± 100 r/min
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)

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Electrical

Unit: mm

	ltem			Specification	Note
Firing orde	r			1 · 2 · 4 · 3	
			Tuno	NGK: CR9EIA-9	
Spark plug		Туре	DENSO: IU27D		
			Gap	0.8 - 0.9 (0.031 - 0.035)	
Spark perf				Over 8 (0.3) at 1 atm.	
	or resistance			180 – 280 Ω	
CKP sense	or peak voltage			3.0 V and more	When cranking
Ignition co	il resistance		Primary	1.0 – 1.9 Ω	Terminal – Terminal
-			Secondary	10.0 – 16.2 kΩ	Plug cap – Terminal
	l primary peak	voltage		80 V and more	When cranking
	coil resistance			0.2 – 0.7 Ω	
	maximum outp		Approx. 400 W at 5 000 r/min		
Generator no-load voltage (When engine is cold)		(When	70 V (AC) and more at 5 000 r/min		
Regulated	voltage			13.5 – 15.5 V at 5 000 r/min	
Startar ma	tor brush length		Standard	12.0 (0.47)	
	tor brush lengt	I	Limit	8.5 (0.33)	
Starter tore	que limiter slip t	orque	Standard	33.3 – 52.0 N⋅m (3.3 – 5.2 kgf-m, 24.0 – 37.5 lb-ft)	
Starter rela	ay resistance			$3-5\Omega$	
	Type desig	nation		YTX12-BS	
Detterne	Capaci			12 V 36 kC (10 Ah)/10 HR	
Battery	Standard ele S.G.	ctrolyte		1.320 at 20 °C (68 °F)	
	Llaadlight	HI		10 A	
	Headlight	LO		10 A	
	Signal				
	Ignitio	n	15 A		
Fuse size	Fuel			10 A	
Fan (LH) Fan (RH)					
	Main			30 A	
	ABS			30 A	

Wattage Unit: W

Item		Specification	
Headlight	HI	65	
liteddiight	LO	55	
Position/Parking light		5 x 2	
Brake light/Taillight		LED	
Turn signal light		21 x 4	
License plate light		5	
Tachometer light		LED	
Speedometer light		LED	
Turn signal indicator light		LED	
High beam indicator light		LED	
Neutral position indicator light		LED	
Oil pressure indicator light		LED	
FI indicator light		LED	
Engine coolant temp. indic	ngine coolant temp. indicator light LED		
Fuel level indicator light			
Engine R.P.M. indicator lig	ht	LED	
ABS indicator light		LED	
Immobilizer indicator light		LED	

Brake + Wheel

Unit: mm (in)

ltem		Standard	Limit
Rear brake pedal height		50 - 60 (2.0 - 2.4)	_
Brake disc thickness	Front	5.3 – 5.7 (0.21 – 0.22)	5.0 (0.20)
	Rear	0.0 0.7 (0.21 0.22)	. ,
Brake disc runout			0.30 (0.012)
Master cylinder bore	Front	14.000 – 14.043 (0.5512 – 0.5529	/
	Rear	12.700 – 12.743 (0.5000 – 0.5017	/
Master cylinder piston diam.	Front	13.957 – 13.984 (0.5495 – 0.5506) —
	Rear	12.657 – 12.684 (0.4983 – 0.4994) —
	Front	Leading Approx. 32.0 (1.26)	
Brake caliper cylinder bore	TION	Trailing Approx. 52.0 (1.20)	—
	Rear	Approx. 38.1 (1.50)	—
	Front	Leading Approx. 32.0 (1.26)	—
Brake caliper piston diam.	TION	Trailing Approx. 52.0 (1.20)	<u> </u>
	Rear	Approx. 38.1 (1.50)	—
Brake fluid type		DOT 4	—
Wheel rim runout	Axial		2.0 (0.08)
	Radial		2.0 (0.08)
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		0.25 (0.010)

Tire

ltem		Standard	Limit
Cold inflation tire pressure	Front	290 kPa (2.90 kgf/cm², 42 psi)	
(Solo/Dual riding)	Rear	290 KFa (2.90 Kgi/ciii ⁻ , 42 psi)	
Tire size	Front	120/70 ZR17M/C (58 W)	_
	Rear	190/50 ZR17M/C (73 W)	_
Tine true	Front	BRIDGESTONE BT015F RADIAL M	—
Tire type	Rear	BRIDGESTONE BT015R RADIAL M	—
Tire tread depth	Front	—	1.6 mm (0.06 in)
(Recommended depth)	Rear	—	2.0 mm (0.08 in)

Suspension Unit: mm (in)

ltem		Standard	Limit
Front fork stroke		120 (4.7)	_
Front fork spring free length		263 (10.4)	257 (10.1)
Front fork oil level (Without spring,		95 (3.7)	
outer tube fully compressed)		95 (5.7)	_
Front fork oil type	SUZUKI	FORK OIL L01 or an equivalent fork oil	_
Front fork oil capacity (Each leg)		532 ml (18.0/18.7 US/Imp oz)	—
Front fork inner tube O.D		43 (1.7)	_
Front fork spring adjuster		3-1/2 grooves from top	—
Front fork damping force adjuster	Rebound	8 clicks out from stiffest position	_
,	Compression	o clicks out norm surrest position	_
Rear shock absorber spring pre-set length		195 (7.7)	—
Rear shock absorber damping force	Rebound	12 clicks out from stiffed position	_
adjuster	Compression	8 clicks out from stiffed position	—
Rear wheel travel		140 (5.5)	_
Swingarm pivot shaft runout		<u> </u>	0.3 (0.01)

Fuel + Oil

ltem		Specification	Note
	Use only unlea	ded gasoline of at least 90 pump octane (R/2	
	+ M/2).		
	Gasoline conta	ining MTBE (Methyl Tertiary Butyl Ether), less	
Fuel type	than 10% etha	nol, or less than 5% methanol with	
	appropriate cos		
Fuel tank capacity	Including	20 L (5.3/4.4 US/Imp gal)	E-33
Fuel tark capacity	reserve	21 L (5.5/4.6 US/Imp gal)	E-03
Engine oil type	SAE 10W	-40, API SF/SG or SH/SJ with JASO MA	
	Change	3 100 ml (3.3/2.7 US/Imp qt)	
Engine oil capacity	Filter change	3 300 ml (3.5/2.9 US/Imp qt)	
	Overhaul	4 000 ml (4.2/3.5 US/lmp qt)	

Tightening Torque List

Item		N⋅m	kgf-m	lb-ft
Exhaust pipe bolt		23	2.3	16.5
Exhaust pipe mounting bolt		23	2.3	16.5
Muffler mounting bolt		25	2.5	18.0
Muffler connecting bolt		23	2.3	16.5
Auffler joint nut		25	2.5	18.0
Speed sensor rotor bolt		28	2.8	20.0
Engine sprocket nut		145	14.5	105.0
Speed sensor bolt		6.5	0.65	4.7
Engine mounting bolt		55	5.5	40.0
Engine mounting nut		75	7.5	54.0
Engine mounting thrust adjuster		10	1.0	7.0
Engine mounting thrust adjuster lock-nut		45	4.5	32.5
Engine mounting pinch bolt		35	3.5	25.5
Cylinder head cover bolt		14	1.4	10.0
Spark plug		11	1.1	8.0
Cam chain guide No. 2 bolt		10	1.0	7.0
Camshaft journal holder bolt		10	1.0	7.0
Cam chain tension adjuster mounting bolt		10	1.0	7.0
Cylinder head side bolt		14	1.4	10.0
Cam chain tensioner bolt		23	2.3	16.5
	[M6]	10	1.0	7.0
Cylinder head bolt	Initial	25	2.5	18.0
	[M10] Final	52	5.2	37.5
Cylinder nut	[M6]	10	1.0	7.0
Nater inlet connector bolt		10	1.0	7.0
Dil hose union bolt		18	1.8	13.0
Clutch cover bolt		10	1.0	7.0
Clutch sleeve hub nut		150	15.0	108.5
Clutch spring set bolt		10	1.0	7.0
Clutch spring support bolt		31	3.1	22.5
Starter clutch cover bolt		10	1.0	7.0
tarter torque limiter cover bolt		10	1.0	7.0
starter clutch cover cap		10	1.0	7.0
alve timing inspection cap		23	2.3	16.5
Starter clutch bolt		55	5.5	40.0
Generator cover bolt		10	1.0	7.0
Generator rotor bolt		120	12.0	87.0
Generator stator set bolt		11	1.1	8.0
Gearshift cover bolt		10	1.0	7.0
Gearshift cam stopper bolt		10	1.0	7.0
Gearshift cam stopper plate bolt		13	1.3	9.5
Gearshift arm stopper bolt		19	1.9	13.5
Dil pressure switch		14	1.4	10.0
_ ·	[M6]	11	1.1	8.0
Crankcase bolt	[M8]	26	2.6	19.0
	[M10]	50	5.0	36.0
	[M6] and [M8]	10	1.0	7.0
	[M10]	18	1.8	13.0
il gallery plug	[M14]	23	2.3	16.5
	[M16]	35	3.5	25.5
Oil drain plug		23	2.3	16.5
Piston cooling oil jet bolt		10	1.0	7.0
Oil jet (For generator)		5	0.5	3.5
il jet (For generator)	On jet (For generator)			

Item			N⋅m	kgf-m	lb-ft
Oil pump mounting bolt			10	1.0	7.0
Conrod bearing cap bolt	Ini	tial	21	2.1	15.0
	Final		90°		
Bearing retainer screw		8	0.8	6.0	
Cam chain guide retainer screw			8	0.8	6.0
Balancer shaft arm bolt			10	1.0	7.0
Balancer cover bolt			10	1.0	7.0
Balancer pipe bolt			10	1.0	7.0
Oil strainer bolt			10	1.0	7.0
Oil pan bolt			10	1.0	7.0
Oil pipe bolt (Camshaft housing)			10	1.0	7.0
Oil pipe bolt	[M6]		10	1.0	7.0
Oil pipe union bolt	[M14]		24	2.4	17.5
Oil filter			20	2.0	14.5
PAIR reed valve cover bolt			11	1.1	8.0
Cam chain tension adjuster service cap			23	2.3	16.5
Water jacket plug			11	1.1	8.0
Crankshaft journal bolt	[M9]	Initial	18	1.8	13.0
Crankshaft journal bolt		Final	32	3.2	23.0
Balancer shaft mounting bolt			10	1.0	7.0
PCV cover bolt			10	1.0	7.0
PCV reed valve cover bolt			10	1.0	7.0
Main oil gallery plug [M6]		35	3.5	25.5	
Oil pressure switch lead wire bolt			1.5	0.15	1.1
Speed sensor mounting bolt		6.5	0.65	4.7	

FI System

Item	N⋅m	kgf-m	lb-ft
CKP sensor mounting bolt	6.5	0.65	4.7
HO2 sensor	25	2.5	18.0
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
Fuel delivery pipe mounting screw	3.5	0.35	2.5
GP switch mounting bolt	6.5	0.65	4.7
Fuel pump mounting bolt	10	1.0	7.0
IAT sensor mounting screw	5.5	0.55	4.0

Cooling System

Item	N⋅m	kgf-m	lb-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
Thermostat cover bolt	10	1.0	7.0
Oil cooler hose bolt	10	1.0	7.0
ECT sensor	18	1.8	13.0

Chassis

Item	N⋅m	kgf-m	lb-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	23	2.3	16.5
Front fork inner rod lock-nut	15	1.5	11.0
Front fork damper rod bolt	23	2.3	16.5
Front axle bolt	100	10.0	72.5
Front axle pinch bolt	23	2.3	16.5
Handlebar holder mounting nut	35	3.5	25.5
Handlebar clamp bolt	10	1.0	7.0
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
Clutch master cylinder mounting bolt	10	1.0	7.0
Clutch hose union bolt	23	2.3	16.5
Air bleeder valve (Front)	7.5	0.75	5.5
Air bleeder valve (Rear)	7.5	0.75	5.5
Brake disc bolt (Front)	23	2.3	16.5
Brake disc bolt (Rear)	35	3.5	25.5
Rear brake caliper mounting bolt	17	1.7	12.5
Rear brake pad mounting pin	15	1.5	11.0
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake master cylinder rod lock-nut	18	1.8	13.0
Rear brake caliper sliding pin	33	3.3	24.0
Brake lever pivot bolt	6	0.6	4.5
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
Cushion lever mounting nut	78	7.8	56.5
Cushion rod mounting nut	78	7.8	56.5
Rear shock absorber mounting nut	50	5.0	36.0
Rear axle nut	100	10.0	72.5
Rear sprocket nut	60	6.0	43.5
Rear master cylinder rod lock-nut	18	1.8	13.0
Air bleeder valve (Clutch)	6	0.6	4.5
Clutch master cylinder holder bolt	10	1.0	7.0
Clutch lever pivot bolt	1.0	0.1	0.7
Clutch lever pivot bolt lock-nut	6.0	0.6	4.5
Clutch release mounting bolt	10	1.0	7.0
Brake pipe flare nut	16	1.6	11.5
Wheel speed sensor rotor bolt	6.5	0.65	4.5