Features & Specifications 2017 Hayabusa



Five Key Features

- Powerful 1340cc, 4-cylinder, DOHC engine employs EFI and a ram-air intake.
- Suzuki Drive Mode Selector (S-DMS) lets the rider tailor the power delivery.
- Superbike caliber aluminum frame and suspension delivers superlative handling.
- Twin Brembo Monobloc front brake calipers with ABS deliver reliable stopping power.
- · Wind-cheating body was truly inspired by a Peregrine Falcon.

Five Key Features

The Suzuki Hayabusa is quite simply the Ultimate Sportbike. Twist the throttle and it responds with awesome acceleration and crisp throttle response in every gear with an unbelievable top-end charge. Thanks to a lightweight and rigid twin-spar aluminum frame and state-of-the-art suspension, that performance is matched by equally impressive handling, providing exceptional control in tight corners, reassuring stability in sweeping turns and a smooth ride on the highway. The sleek, aerodynamic body work functions as it appears so the Hayabusa slips through the wind like a Peregrine Falcon.

Engine Features

- Powerful 1340cc in-line 4-cylinder fuel-injected, liquid-cooled DOHC engine built to deliver a broad wave of torque 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 the use of light valve springs and high lift camshafts 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 down-shifts 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 to improve combustion efficiency and smooth 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 a 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.



Chassis Features

- Twin-spar aluminum-alloy frame is constructed with castings and extrusions to produce a balance of light weight 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, plus 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.
- The solo rear 260mm (10.2 inch) brake rotor is grabbed by a single-piston 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 is 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 www.suzukicycles.com.



^{*} 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 GSX1300RAL7 E-03: USA, E-33: California

DIMENSIONS AN	D CURB MASS
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Overall length	2190 mm (86.2 in)
Overall width	
Overall height	
Wheelbase	1480 mm (58.3 in)
Ground clearance	120 mm (4.7 in)
Seat height	805 mm (31.7 in)
Curb mass	266 kg (586 lbs)

ENGINE

Type	4-stroke, Liquid-cooled, DOHC
Number of cylinders	4
Bore	
Stroke	
Displacement	1340 cm ³ (81.8 cu. in)
Compression ratio.	
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	
4th	,
5th	,
Тор	,
Final reduction ratio	,
Drive chain	RK GR50GSV 74 114 links

CHASSIS

Front suspension	Inverted telescopic, coil spring, oil damped
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	23° 25'
Trail	93 mm (3.66 in)
Steering angle	30° (right & left)
Turning radius	3.3 m (10.8 ft)
Front brake	Disc brake, twin
Rear brake	Disc brake
Front tire	120/70ZR17M/C (58W), tubeless
Rear tire	190/50ZR17M/C (73W), tubeless



Specifications GSX1300RAL7 E-03: USA, E-33: California

ELECTRICAL Ignition type Ignition timing Spark plug Battery Generator Main fuse Fuse Headlight Position light Brake/Tail light Turn signal light License plate light. Speedometer light. Tachometer light Neutral indicator light High beam indicator light Engine coolant temperature indicator light Oil pressure indicator light Fuel level indicator light Fl indicator light Engine R.P.M. indicator light	5° B.T.D.C. at 1150 r/min NGK CR9EIA-9 or DENSO IU27D 12V 36.0 kC (10Ah)/10 HR Three-phase A.C. generator 30A 30/15/15//15/10/10/10/10A 12V 65W (H9)High beam 12V 55W (H7)Low beam 12V 5W × 2 LED 12V 21W 12V 5W LED
CAPACITIES Fuel tank Engine oil, oil change	21.0 L (5.5/4.6 US/Imp gal)E-03 3100 ml (3.3/2.7 US/Imp qt) 3300 ml (3.5/2.9 US/Imp qt)

Service Data GSX1300RAL7 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)	_
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.	5.000 - 5.012 (0.1969 - 0.1973)	
Valve stem O.D.	IN.	4.975 – 4.990 (0.1959 – 0.1965)	_
valve stem O.D.	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		Limit	
Cam height	IN.	36.98 – 37.02 (1.456 – 1.457)	36.68 (1.444)
Carri rieigni	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		<u> </u>	0.20 (0.008)



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

Item			Standard	Limit
Compression pressure	1 4	00 – 1	1 000 kPa (10 kgf/cm², 142 psi)	
Compression pressure difference			_	200 kPa (2 kgf/cm², 28 psi)
Piston-to-cylinder clearance		C	0.035 - 0.045 (0.0014 - 0.0018)	0.120 (0.0047)
Cylinder bore			.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)
Fision fing free end gap	2nd	2T	Approx. 9.0 (0.35)	7.2 (0.28)
Piston ring end gap	1st 2nd	— 2Т	0.06 - 0.18 (0.002 - 0.007)	0.50 (0.020)
Dieter ring to greeke elegrence	1s	t	-	0.180 (0.0071)
Piston ring-to-groove clearance	2nd		_	0.150 (0.0059)
15		t	0.83 - 0.85 (0.0327 - 0.0335) 1.30 - 1.32 (0.0512 - 0.0520)	_
Piston ring groove width	2nd		1.01 – 1.03 (0.0398 – 0.0406)	_
	Oi	l	2.01 – 2.03 (0.0791 – 0.0799)	_
	1st 2nd		0.76 - 0.81 (0.0299 - 0.0319)	
Piston ring thickness			1.08 – 1.10 (0.0425 – 0.0433)	_
			0.97 – 0.99 (0.0382 – 0.0390)	
Piston pin bore	18.002 - 18.008 (0.7087 - 0.7090)			18.030 (0.7098)
Piston pin O.D.		17.996 – 18.000 (0.7085 – 0.7087)		17.980 (0.7079)

Conrod + Crankshaft

Unit: mm (in)

ltem		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	C	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)	_
Clarikshalt tillust bearing tillckness	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)	<u> </u>
	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)
Cidicii diive piate tilickiless	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)
Clutch drive plate claw width	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			Limit	
Primary reduction ratio			_	
Final reduction ratio			2.388 (43/18)	_
	Low		2.615 (34/13)	_
	2nd		1.937 (31/16)	_
Gear ratios	3rd		1.526 (29/19)	_
Geal fallos	4th		1.285 (27/21)	_
	5th		_	
	Тор		_	
Shift fork to groove cleara	nce		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)		_
		Type	RK GB50GSVZ4	_
Drive chain		Links	114 links	_
Drive chair		20-pitch length		319.4 (12.57)
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		_	
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	_
ECT sensor resistance	80 °C (176 °F)	Approx. 0.318 kΩ	_
	110 °C (230 °F) Approx. 0.142 kΩ		_
Radiator cap valve opening pressure	93 – 123 k	кРа (0.93 – 1.23 kgf/cm², 13.2 – 17.5 psi)	_
Cooling fan operating temperature	OFF \rightarrow ON Approx. 105 °C (221 °F)		_
Cooling lan operating temperature	$ON \rightarrow OFF$	Approx. 100 °C (212 °F)	_
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. 2 700 ml (2.9/2.4 US/lmp qt)	_

Injector + Fuel Pump + Fuel Pressure Regulator

Item	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)	

FI Sensors

Item		Note	
CKP sensor resistance			
CKP sensor peak voltage		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	
TP sensor output voltage	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	P	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	P	Approx. 2.58 kΩ at 20 °C (68 °F)	
AP sensor input voltage		4.5 – 5.5 V	
AP sensor output voltage	App		
TO sensor resistance		16.5 – 22.3 kΩ	
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		Battery voltage	
Ignition coil primary peak voltage		80 V and more	When cranking
HO2 sensor output voltage			
HOZ sensor output voltage			
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			
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		Approx. 32 Ω at 20 °C (68 °F)	If equipped
solenoid valve resistance		ii 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)				



Electrical

Unit: mm

	ltem			Specification 1 · 2 · 4 · 3	Note		
Firing orde	er						
			NGK: CR9EIA-9				
Spark plug)		Type	DENSO: IU27D			
			Gap				
Spark perf	ormance			Over 8 (0.3) at 1 atm.			
CKP sense	or resistance			180 $-$ 280 Ω			
CKP sense	or peak voltage			3.0 V and more	When cranking		
lanition oo	il registance		Primary	1.0 – 1.9 Ω	Terminal – Terminal		
ignition co	il resistance		Secondary	10.0 – 16.2 kΩ	Plug cap – Terminal		
Ignition co	il primary peak v	/oltage		80 V and more	When cranking		
	coil resistance			0.2 – 0.7 Ω			
Generator	maximum outpu	ıt					
Generator	no-load voltage	(When	7.0				
engine is c	cold)	•	70				
Regulated	voltage						
Starter motor brush length			Standard 12.0 (0.47)				
Starter mo	nor brusii ierigiri		Limit				
Ctartar tar	aug limitar alia t	2 K G I I O	Standard 33.3 – 52.0 N·m				
Starter ton	que limiter slip t	orque	Standard	(3.3 – 5.2 kgf-m, 24.0 – 37.5 lb-ft)			
Starter rela	ay resistance		3 – 5 Ω				
	Type desigr	nation		YTX12-BS			
Dottoni	Capaci	ty		12 V 36 kC (10 Ah)/10 HR			
Battery	Standard ele S.G.	ctrolyte		1.320 at 20 °C (68 °F)			
	l looellilet	HI		10 A			
Headlight LO							
	Signa			10 A			
Ignition							
Fuse size							
	Fan (LH	Fan (LH)		10 A 15 A			
Fan (,					
	Main	•					
	ABS			30 A			



Wattage Unit: W

Item		Specification		
Headlight	HI	65		
Teadiight	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 li	ght	LED		
Oil pressure indicator light		LED		
FI indicator light		LED		
Engine coolant temp. indic	ator light	LED		
Fuel level indicator light	-	LED		
Engine R.P.M. indicator lig	ht	LED		
ABS indicator light		LED		
Immobilizer indicator light		LED		

Brake + Wheel

Unit: mm (in)

Item		Standard				
Rear brake pedal height		50 – 60 (2.0 – 2.4)				
Brake disc thickness	Front Rear	<u> </u>				
Brake disc runout			_	0.30 (0.012)		
Master oylinder here	Front	14.00	00 – 14.043 (0.5512 – 0.5529)			
Master cylinder bore	Rear	12.70	00 – 12.743 (0.5000 – 0.5017)	_		
Master cylinder piston diam.	Front	13.95	57 – 13.984 (0.5495 – 0.5506)	_		
Master Cyllinder pistori diam.	Rear	12.65	57 – 12.684 (0.4983 – 0.4994)	_		
Brake caliper cylinder bore	Front	Leading Trailing	Approx. 32.0 (1.26)			
, ,	Rear		Approx. 38.1 (1.50)	_		
Brake caliper piston diam.	Front	Leading Approx. 32.0 (1.26)				
	Rear		Approx. 38.1 (1.50)	_		
Brake fluid type			DOT 4	_		
Wheel rim runout	Axial			2.0 (0.08)		
Vineer fill runout	Radial]	_	2.0 (0.08)		
Wheel rim size	Front		17 M/C x MT 3.50	_		
VVIIeer Hill Size	Rear		17 M/C x MT 6.00	_		
Wheel axle runout	Front Rear		_	0.25 (0.010)		

Tire

Item		Limit	
Cold inflation tire pressure	Front	290 kPa (2.90 kgf/cm², 42 psi)	
(Solo/Dual riding)	Rear	290 KFa (2.90 Kgi/ciii ² , 42 psi)	_
Tire size	Front	120/70 ZR17M/C (58 W)	_
	Rear	190/50 ZR17M/C (73 W)	_
Tire type	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		Limit	
Front fork stroke		_	
Front fork spring free length		263 (10.4)	257 (10.1)
Front fork oil level (Without spring,		95 (3.7)	
outer tube fully compressed)		` ,	
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/lmp 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 positio		_
, , ,	Compression	o clicks out from stillest position	_
Rear shock absorber spring pre-set		195 (7.7)	_
length	<u> </u>		
Rear shock absorber damping force	Rebound	_	
adjuster	Compression	_	
Rear wheel travel		_	
Swingarm pivot shaft runout		_	0.3 (0.01)

Fuel + Oil

Item		Note				
	Use only unlea					
	+ 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/lmp gal)	E-33			
l del talik capacity	reserve	21 L (5.5/4.6 US/lmp gal)	E-03			
Engine oil type	SAE 10W	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/lmp qt)				
	Overhaul	4 000 ml (4.2/3.5 US/lmp qt)				



Tightening Torque List

Engine

BEND15H10307002

Liigiile					
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
Muffler 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
Carri criairi terisioriei poit	[M6]		10	1.0	7.0
Cylinday band balt			25		18.0
Cylinder head bolt		nitial		2.5	
Outlined any south		Final	52	5.2	37.5
Cylinder nut	[M6]		10	1.0	7.0
Water inlet connector bolt			10	1.0	7.0
Oil 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
Starter torque limiter cover bolt			10	1.0	7.0
Starter clutch cover cap			10	1.0	7.0
Valve 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
Oil 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		10	1.0	7.0
Oil gallery plug [M10] [M14]			18	1.8	13.0
			23	2.3	16.5
[N1]			35	3.5	25.5
Oil drain plug	[IVI I O	23	2.3	16.5	
Piston cooling oil jet bolt			10	1.0	7.0
Oil jet (For generator)			5	0.5	3.5
Oil jet (For generator)			<u> </u>	0.5	ა.ე



Item		N⋅m	kgf-m	lb-ft	
Oil pump mounting bolt			10	1.0	7.0
Conrod bearing cap bolt	Init	tial	21	2.1	15.0
	Final		90°		
Bearing retainer screw	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	[NAO]	Initial	18	1.8	13.0
Crankshaft journal bolt	[M9]	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

