Features & Specifications 2016 Boulevard C50



Key Features

- 805cc, fuel-injected, 45-degree V-Twin
- · Low seat height at 27.6 in.
- · Wide tires on sparkling spoke wheels
- · Styling incorporates timeless cruiser heritage

Engine Features

- Narrow 805cc, fuel injected, liquid-cooled, SOHC, four-valve-per-cylinder, 45-degree V-twin engine is tuned for exceptional low RPM torque.
- Sculpted engine features polished aluminum and chrome covers that complement the visually striking cylinders with symmetrical cooling fins.
- Offset crankpins bring optimally balanced firing intervals and create a signature V-Twin rumble.
- Suzuki Dual Throttle Valve (SDTV) electronic fuel-injection system maintains optimum air velocity in the intake tract for smooth low-to mid-RPM throttle response.
- Auto Fast Idle System (AFIS) automatically sets the throttle valve opening during cold engine starts by monitoring coolant temperature.
- Cutting-edge 3D-mapped digital ignition system using a throttle-position sensor helps boost the hallmark big V-Twin low-down torque.
- Chromed and staggered dual-exhaust system mounted on the right side of the engine are tuned for responsive torque delivery providing a deep, rumbling exhaust note.
- A wide-ratio five-speed transmission features a high fifth gear ratio for relaxed highway cruising.
- Low-maintenance shaft drive is clean-running and has minimal torque reaction as it efficiently transmits power to the wide 15-inch rear tire.



Chassis Features

- Strong, double-cradle steel frame supports a chassis ready for cruising or a full-on tour.
- The styling incorporates timeless visual statements in the cruiser heritage: rich paintwork, glittering chrome and deep front and rear fenders with rounded ends.
- Link-type rear suspension is shaped to mimic the hard-tail lines of a traditional cruiser, connecting a truss-style swing arm and a single shock absorber with 7-way spring preload adjustability providing 4.1 inches of smooth and response suspension travel.
- A kicked-out, 33-degree rake and long 65.2-inch wheelbase provides a smooth, comfortable ride.
- Stout telescopic front forks deliver generous 5.5 inches of smooth wheel travel.
- Wide handlebars, forward-mounted floorboards, and leather-textured seat provide a comfortable ride around town and on the highway.
- A wide 15" rear tire and matching 16" front tire are mounted to bright, spoke-style wheels for a classic cruiser look.
- Hydraulic front disc and drum-type rear brakes provide strong, reliable braking performance.
- The wide, deeply cushioned seat has a low 27.6 inches seat height that's ideal for comfortable cruising and confident stops.
- Wide passenger seat makes for comfortable two-up rides. It's stepped location on the rear fender allows passengers to see over the rider's shoulder.
- The instrument cluster includes a convenient gear-position indicator, a large fuel meter, and a clock that's always on display.
- Bright multi-reflector headlight. Durable, efficient and compact LED taillight.
- · Rear turn signals are mounted at the base of the rear fender to allow room for adding saddlebags.



Additional Features

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



Specifications VL800L6 E-03: USA, E-33: California

DIME	NSIONS	CINA	CHER	MASS
	1310113	HIND	CURD	MAGG

Overall length	2500 mm (98.4 in)
Overall width	955 mm (37.6 in)
Overall height	1110 mm (43.7 in)
Wheelbase	1655 mm (65.2 in)
Ground clearance	140 mm (5.5 in)
Seat height	700 mm (27.6 in)
Curb mass	277 kg (611 lbs)

ENGINE

Type	4-stroke, Liquid-cooled, OHC, 45° V-twin
Number of cylinders	2
Bore	
Stroke	74.4 mm (2.929 in)
Displacement	805 cm ³ (49.1 cu. in)
Compression ratio	
Fuel system	Fuel injection
Air cleaner	Non-woven fabric element
Starter system	Electric
Lubrication system	Wet sump
Idle speed	1100 ± 100 r/min

DRIVE TRAIN

	••	
Clutch		Wet multi-plate type
Transmission	າ	5-speed constant mesh
Gearshift pat	ttern	1-down, 4-up
Primary redu	iction ratio	1.690 (71/42)
•	eduction ratio	,
	Low	
ŕ	2nd	1.631 (31/19)
	3rd	1.227 (27/22)
	4th	1.000 (25/25)
	Тор	,
Final reduction	on ratio	,
	1	` ,

CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension	Link type, coil spring, oil damped
Front suspension stroke	140 mm (5.5 in)
Rear wheel travel	105 mm (4.1 in)
Caster	33° 20'
Trail	138 mm (5.43 in)
Steering angle	38° (right & left)
Turning radius	3.0 m (9.8 ft)
Front brake	Disc brake
Rear brake	Drum brake
Front tire	130/90-16M/C 67H, tubeless
Rear tire	170/80-15M/C 77H, tubeless



Specifications VL800L6 E-03: USA, E-33: California

ELECTRICAL

Battery	Ignition type Ignition timing Spark plug	7° B.T.D.C. at 1100 r/min
	Generator Main fuse Fuse Headlight Brake/Tail light License light Front turn signal/Position light Rear turn signal light Speedometer light Neutral indicator light High beam indicator light Turn signal indicator light Oil pressure/Coolant temperature indicator light	12V 36.0 kC (10 Ah)/10 HR Three-phase A.C. generator 30A 20/10/10/10/10/10A 12V 60/55W (H4) LED 12V 5W 12V 21/5W 12V 21W LED LED LED LED LED

CAPACITIES

Fuel tank	15.5 L (4.1/3.4 US/Imp gal)
Engine oil, oil change	3000 ml (3.2/2.6 US/Imp qt)
with filter change	
overhaul	
Final gear oil	200 – 220 ml (6.8/7.0 – 7.4/7.7 US/Imp oz)
Coolant	

Service Data VL800L6 E-03: USA, E-33: California

VALVE + GUIDE

Unit: mm (in)

ITEM		STANDARD	LIMIT
Valve diam.	IN.	30 (1.18)	_
	EX.	26 (1.02)	_
Valve clearance (when cold)	IN.	0.08 - 0.13 (0.003 - 0.005)	_
	EX.	0.17 - 0.22 (0.007 - 0.009)	_
Valve guide to valve stem clearance	IN.	0.010 - 0.037 (0.0004 - 0.0015)	_
	EX.	0.030 - 0.057 (0.0012 - 0.0022)	_
Valve guide I.D.	IN. & EX.	5.500 - 5.512 (0.2165 - 0.2170)	_
Valve stem O.D.	IN.	5.475 – 5.490 (0.2156 – 0.2161)	_
	EX.	5.455 - 5.470 (0.2148 - 0.2154)	_
Valve stem deflection	IN. & EX.	_	0.35 (0.014)
Valve stem runout	IN. & EX.	_	0.05 (0.002)
Valve head thickness	IN. & EX.	_	0.5 (0.02)
Valve stem end length	IN. & EX.	_	3.1 (0.12)
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	INNER	_	38.3 (1.51)
	OUTER	_	40.1 (1.58)
Valve spring tension	INNER	64 - 73 N (6.51 - 7.49 kgf, 14.35 - 16.51 lbs) at length 32.5 mm (1.28 in)	_
	OUTER	119 – 136 N (12.09 – 13.91 kgf, 26.65 – 30.67 lbs) at length 36.0 mm (1.42 in)	<u> </u>

CAMSHAFT + CYLINDER HEAD

Unit: mm (in)

ITEM		STANDARD			
Cam height	IN.	35.50 - 35.54 (1.398 - 1.399)	35.20 (1.386)		
	EX.	36.58 - 36.62 (1.440 - 1.442)	36.28 (1.428)		
Camshaft journal oil clearance	(0.032 - 0.066 (0.0013 - 0.0026)			
Camshaft journal holder I.D.	Rear left side Front right side	20.012 - 20.025 (0.7879 - 0.7884)	_		
	Rear right side Front left side	25.012 - 25.025 (0.9847 - 0.9852)	_		
Camshaft journal O.D.	Rear left side Front right side	19.959 – 19.980 (0.7858 – 0.7866)	_		
	Rear right side Front left side	Rear right side 24.959 – 24.980 Front left side (0.9826 – 0.9835)			
Camshaft runout		_			
Rocker arm I. D.	IN. & EX.	12.000 – 12.018 (0.4724 – 0.4731)	_		
Rocker arm shaft O. D.	IN. & EX.	11.977 – 11.995 (0.4715 – 0.4722)	_		
Cylinder head distortion		_			
Cylinder head cover distortion		_	0.05 (0.002)		

CYLINDER + PISTON + PISTON RING

Unit: mm (in)

ITEM			STANDARD	LIMIT
Compression pressure	1 300 – 1 700 kPa (13 – 17 kgf/cm², 185 – 242 psi)			1 100 kPa (11 kgf/cm² 156 psi)
Compression pressure difference			_	200 kPa (2 kgf/cm² 28 psi)
Piston to cylinder clearance			0.045 - 0.055 (0.0018 - 0.0022)	0.120 (0.0047)
Cylinder bore			83.000 - 83.015 (3.2677 - 3.2683)	83.085 (3.2711)
Piston diam.	82.950 – 82.965 (3.2657 – 3.2663) Measure at 15 mm (0.6 in) from the skirt end.		82.880 (3.2630)	
Cylinder distortion	_		_	0.05 (0.002)
Piston ring free end gap	1st		Approx. 9.6 (0.38)	7.7 (0.30)
	2nd	R	Approx. 11.8 (0.46)	9.4 (0.37)
Piston ring end gap	1st		0.20 - 0.35 (0.008 - 0.014)	0.70 (0.028)
	2nd		0.20 - 0.35 (0.008 - 0.014)	0.70 (0.028)
Piston ring to groove clearance	1st		_	0.180 (0.007)
	2nd		_	0.150 (0.006)

ITEM		STANDARD	LIMIT
Piston ring groove width	1st	1.01 – 1.03 (0.0398 – 0.0406)	_
	2nd	1.21 – 1.23 (0.0476 – 0.0484)	_
	Oil	2.51 - 2.53 (0.0988 - 0.0996)	_
Piston ring thickness	1st	0.970 - 0.990 (0.0382 - 0.0390)	_
	2nd	1.170 – 1.190 (0.0461 – 0.0469)	_
Piston pin bore	20.002 – 20.008 (0.7875 – 0.7877)		20.030 (0.7886)
Piston pin O.D.	19.992 – 20.000 (0.7871 – 0.7874)		19.980 (0.7866)

CONROD + CRANKSHAFT

CONROD + CRANKSHAFT					
ITEM	STANDARD	LIMIT			
Conrod small end I.D.	20.010 - 20.018 (0.7878 - 0.7881)	20.040 (0.7890)			
Conrod big end side clearance	0.10 - 0.20 (0.004 - 0.008)	0.30 (0.012)			
Conrod big end width	21.95 - 22.00 (0.864 - 0.866)	_			
Crank pin width	22.10 - 22.15 (0.870 - 0.872)	_			
Conrod big end oil clearance	0.024 - 0.042 (0.0009 - 0.0017)	0.080 (0.0031)			
Crank pin O.D.	40.982 - 41.000 (1.6135 - 1.6142)	_			
Crankshaft journal oil clearance	0.002 - 0.029 (0.00008 - 0.0011)	0.080 (0.0031)			
Crankshaft journal O.D.	47.965 – 47.980 (1.8884 – 1.8890)	_			
Crankshaft thrust bearing thickness	1.925 - 2.175 (0.0758 - 0.0856)	_			
Crankshaft thrust clearance	0.05 - 0.10 (0.002 - 0.004)	_			
Crankshaft runout		0.05 (0.002)			

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pressure (at 60 °C, 140 °F)	350 – 650 kPa (3.5 – 6.5 kgf/cm², 50 – 92 psi) at 3 000 r/min	_



CLUTCH Unit: mm (in)

ITEM		STANDARD		
Clutch lever play		10 – 15 (0.4 – 0.6)		
Clutch release screw		1/4 turn back	_	
Drive plate thickness	No. 1	2.92 - 3.08 (0.115 - 0.121)	2.62 (0.103)	
	No. 2	3.42 - 3.58 (0.135 - 0.141)	3.12 (0.123)	
Drive plate claw width		15.9 – 16.0 (0.626 – 0.630)		
Driven plate distortion		_		
Clutch spring free length		49.2 (1.94)		

TRANSMISSION

Unit: mm (in) Except ratio

ITEM			STANDARD	LIMIT
Primary reduction rat	reduction ratio 1.690 (71/42)		1.690 (71/42)	_
Secondary reduction ratio			1.000 (30/30)	_
Final reduction ratio			3.503 (17/15 × 34/11)	_
Gear ratios	Low		2.461 (32/13)	_
	2nd		1.631 (31/19)	_
	3rd		1.227 (27/22)	_
	4th		1.000 (25/25)	_
	Тор		0.814 (22/27)	_
Shift fork to groove clearance		No. 1	0.10 - 0.30 (0.004 - 0.012)	0.50 (0.020)
		No. 2	0.10 - 0.30 (0.004 - 0.012)	0.50 (0.020)
Shift fork groove width		No. 1	5.50 – 5.60 (0.217 – 0.220)	_
		No. 2	4.50 – 4.60 (0.177 – 0.181)	_
Shift fork thickness		No. 1	5.30 – 5.40 (0.209 – 0.213)	_
		No. 2	4.30 – 4.40 (0.169 – 0.173)	_

SHAFT DRIVE

Unit: mm (in)

ITEM		LIMIT		
Secondary bevel gear backlash		0.05 - 0.32 (0.002 - 0.013)		
Final bevel gear backlash	Drive side 0.03 - 0.064 (0.001 - 0.025)		_	
Damper spring free length		_	58.5 (2.30)	



THERMOSTAT + RADIATOR + FAN + ENGINE COOLANT

ITEM	S	TANDARD/SPECIFICATION	NOTE
Thermostat valve opening temperature		_	
Thermostat valve lift	Over	6 mm (0.24 in) at 90 °C (194 °F)	_
ECT sensor resistance	20 °C (68 °F)	Approx. 2.45 kΩ	_
	40 °C (104 °F)	Approx. 1.148 kΩ	
	60 °C (140 °F)	Approx. 0.587 kΩ	_
	80 °C (176 °F)	Approx. 0.322 kΩ	
Radiator cap valve opening pressure	(0.95	95 – 125 kPa 5 – 1.25 kgf/cm², 13.5 – 17.8 psi)	
Cooling fan thermo-switch	$OFF \to ON$	Approx. 105 °C (221 °F)	
operating temperature	$ON \to OFF$	Approx. 100 °C (212 °F)	
Engine coolant type	Use an ant num radiato		
Engine coolant capacity		_	

INJECTOR + FUEL PUMP + FUEL PRESSURE REGULATOR

ITEM	SPECIFICATION	NOTE
Injector resistance	9.5 – 11.5 Ω at 20 °C (68 °F)	
Fuel pump discharge amount	Approx. 168 ml (5.7/5.9 US/lmp oz) and more/10 sec.	
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm², 43 psi)	

THROTTLE BODY

ITEM	SPECIFICATION
Bore size	34 mm
I.D. No.	41F3 (For E-33), 41F2 (For E-03)
Idle r/min	1 100 ± 100 r/min
Fast idle r/min	1 800 r/min (When cold engine)
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)



FI SENSORS + SECONDARY THROTTLE VALVE ACTUATOR

ITEM		SPECIFICATION	NOTE
CKP sensor resistance	184 – 276 Ω		
CKP sensor peak voltage		1.5 V and more	
IAP sensor input voltage		4.5 – 5.5 V	
IAP sensor output voltage	,	Approx. 2.6 V at idle speed	
TP sensor input voltage		4.5 – 5.5 V	
TP sensor resistance	Closed	Approx. 1.1 kΩ	
	Opened	Approx. 4.4 kΩ	
TP sensor output voltage	Closed	Approx. 1.1 V	
	Opened	Approx. 4.4 V	
ECT sensor input voltage		4.5 – 5.5 V	
ECT sensor resistance	Apı	prox. 2.45 kΩ at 20 °C (68 °F)	
IAT sensor input voltage		4.5 – 5.5 V	
IAT sensor resistance	Ap	Approx. 2.6 kΩ at 20 °C (68 °F)	
TO sensor resistance		19.1 – 19.7 kΩ	
TO sensor voltage	Normal	0.4 – 1.4 V	
	Leaning	3.7 – 4.4 V	When leaning 65°
GP switch voltage		0.2 V and more	
Injector voltage		Battery voltage	
STP sensor input voltage		4.5 – 5.5 V	
STP sensor resistance	Closed	Approx. 0.5 kΩ	
	Opened	Approx. 3.9 kΩ	
STP sensor output voltage	Closed	Approx. 0.5 V	
	Opened	Approx. 3.9 V	
STV actuator resistance		Approx. 6.5 Ω	
Heated oxygen sensor output	(0.3 V and less at idle speed	
voltage	0.6 V and more at 5 000 r/min		For E- 33
Heated oxygen sensor resistance	6	6.7 – 9.5 Ω at 23 °C (73.4 °F)	
PAIR solenoid valve resistance	20 –		

ELECTRICAL Unit: mm (in)

ELECTRICA	TEM		SPECIFICATION			NOTE		
Firing order				1.2				
Spark plug	Spark plug		Tuna	NGK: DR7EA DENSO: X22ESR-U	Foi	r E-33		
			Type	NGK: DPR7EA-9 DENSO: X22EPR-U9	Foi	For E-03		
			Gap	0.6 - 0.7 (0.024 - 0.028)	Foi	r E-33		
			Сар	0.8 - 0.9 (0.031 - 0.035)	Foi	r E-03		
Spark performar	nce			Over 8 (0.3) at 1 atm.				
CKP sensor resi	istance			184 – 276 Ω				
CKP sensor pea				4.0 V and more				
Ignition coil resis	stance		Primary	2.8 – 4.7 Ω		Terminal – Terminal		
			Secondary	24 – 36 kΩ		Plug cap – Terminal		
Ignition coil primary peak voltage (For E-33)		200 V and more		#1	⊕ B/BI (main)⊕ B/R (sub)⊕ Ground⊕ B/Y (main)			
Ignition coil prim	ony pook volto	~~~				⊕ W (sub)⊝ Ground⊕ B/BI		
(For E-03)	Ignition coil primary peak voltage (For E-03)		200 V and more		#1	⊕ Ground ⊕ B/R ⊝ Ground		
Generator coil re	esistance		0.2 – 1.5 Ω					
Generator no-loa (when engine is	ad voltage cold)		70 V (AC) and more at 5 000 r/min			Y – Y		
Regulated voltag	ge			13.5 - 15.0 V at 5 000 r/min		Y – Y		
Generator maxir	mum output		350 W at 5 000 r/min					
Starter relay res	istance		3 – 7 Ω					
GP switch voltag	ge		0.6 V and	more (From 1st to top without neutral)				
Battery	Type designa	tion		FTX12-BS				
	Capacity			12 V 36 kC (10 Ah)/10 HR				
Fuse size	Headlight	HI	10 A					
LO		LO	10 A					
	Signal				10 A		 	
	Ignition		20 A					
	Fuel		10 A		_			
	Main		30 A					
Power source		10 A						

WATTAGE Unit: W

ITEM	SPECIFICATION	
Headlight	HI	60
	LO	55
Brake light/Taillight		LED
Turn signal light	21/5 (Front), 21 (Rear)	
Licence plate light	5	
Speedometer light	LED	
Engine coolant temp. warn	LED	
Turn signal indicator light		LED
High beam indicator light		LED
Neutral indicator light	LED	
Oil pressure indicator light	LED	
FI indicator light		LED

BRAKE + WHEEL

Unit: mm (in)

ITEM		STANDARD	LIMIT	
Rear brake pedal free travel		20 – 30 (0.8 – 1.2)		
Rear brake pedal height		95 – 105 (3.7 – 4.1)	_	
Brake drum I.D.	Rear	_	180.7 (7.11)	
Brake disc thickness	Front	4.8 - 5.2 (0.19 - 0.21)	4.5 (0.18)	
Brake disc runout		_	0.30 (0.012)	
Master cylinder bore	Front	12.700 - 12.743 (0.5000 - 0.5017)	_	
Master cylinder piston diam.	Front	Front 12.657 – 12.684 (0.4983 – 0.4993)		
Brake caliper cylinder bore	Front	Front 30.230 – 30.306 (1.1901 – 1.1931)		
Brake caliper piston diam.	Front	30.150 - 30.200 (1.1870 - 1.1889)	_	
Wheel rim runout	Axial	_	2.0 (0.08)	
	Radial	_	2.0 (0.08)	
Wheel axle runout	Front	_	0.25 (0.010)	
	Rear	-	0.25 (0.010)	
Wheel rim size	Front	J16 M/C × MT 3.00	_	
	Rear	J15 M/C × MT 4.00	_	

TIRE

ITEM		LIMIT	
Cold inflation tire pressure (Solo riding)	Front	200 kPa (2.00 kgf/cm², 29 psi)	_
	Rear	250 kPa (2.50 kgf/cm², 36 psi)	_
Cold inflation tire pressure (Dual riding)	Front	200 kPa (2.00 kgf/cm², 29 psi)	_
	Rear	250 kPa (2.50 kgf/cm², 36 psi)	_
Tire size	Front	130/90-16 M/C 67H	
	Rear	170/80-15 M/C 77H	_
Tire type	Front	IRC GS-23F	
	Rear	IRC GS-23R	
Tire tread depth	Front	_	1.6 (0.06)
	Rear	_	2.0 (0.08)

SUSPENSION Unit: mm (in)

ITEM	STANDARD	LIMIT
Front fork stroke	140 (5.5)	
Front fork spring free length	575.4 (22.65)	563 (22.2)
Front fork oil level (without spring)	158 (6.22)	
Front fork oil type	SUZUKI FORK OIL SS-08 or an equivalent fork oil	
Front fork oil capacity (each leg)	441 ml (24.0/25.0 US/Imp oz)	
Front fork inner tube outside diam.	41 (1.61)	
Rear shock absorber spring adjuster	4th	_
Rear wheel travel	105 (4.13)	_
Swingarm pivot shaft runout	_	0.3 (0.01)

FUEL + OIL

ITEM		SPECIFICATION				
	llaa ambaamlaa	NOTE				
Fuel type	Use only unlea					
	,	1/2) or 91 octane or higher rated by				
	the research me					
		ining MTBE (Methyl Tertiary Butyl				
	· ·	an 10% ethanol, or less than 5% \mid				
		appropriate cosolvents and corro-				
	sion inhibitor is	permissible.				
Fuel tank capacity	Including	15.5 L				
	reserve	(4.1/3.4 US/Imp gal)				
	Fuel level	1.5 L				
	indicator light	(0.4/0.3 US/Imp gal)				
	lighting	SAE 10W-40, API, SF/SG or SH/SJ with JASO MA				
Engine oil type	SAE 10W-40, A					
Engine oil capacity	Change	3 000 ml				
	Onlange	(3.2/2.6 US/Imp qt)				
	Filter change	3 400 ml				
	Tiller onarige	(3.6/3.0 US/Imp qt)				
	Overhaul	3 700 ml				
		(3.9/3.3 US/Imp qt)				
Final bevel gear oil type	SAE GL-5					
	GL-5					
Final bevel gear oil capacity	,,,,,					
	(6.8/					
Brake fluid type						

TIGHTENING TORQUE ENGINE

ITEM		N⋅m	kgf-m	lbf-ft	
Rocker arm shaft		27	2.7	19.5	
Cylinder head cover bolt		6 mm	10	1.0	7.0
		8 mm	25	2.5	18.0
Cylinder head bolt and nut	8 mm	Initial	10	1.0	7.0
	0 111111	Final	25	2.5	18.0
	10 mm	Initial	25	2.5	18.0
	10 111111	Final	38	3.8	27.5
Cam sprocket bolt			15	1.5	11.0
Cam chain tension adjuster mounting t	oolt		10	1.0	7.0
Cam chain tensioner bolt			10	1.0	7.0
Primary drive gear bolt			95	9.5	68.5
Clutch spring set bolt			10	1.0	7.0
Clutch sleeve hub nut			60	6.0	47.0
Driveshaft bolt			55	5.5	40.0
Ignition coil bolt			4.5	0.45	3.5
Secondary drive gear shaft nut			105	10.5	76.0
Secondary gear case bolt		Initial	15	1.5	11.0
		Final	22	2.2	16.0
Generator rotor bolt			160	16.0	115.5
Starter clutch allen bolt			26	2.6	19.0
Starter motor mounting bolt			10	1.0	7.0
Crankcase bolt	6 r	nm	11	1.1	8.0
	8 mm	Initial	15	1.5	11.0
		Final	22	2.2	16.0
Conrod cap nut		Initial	25	2.5	18.0
		Final	51	5.1	37.0
Oil pressure regulator			28	2.8	20.0
Oil pump mounting bolt			11	1.1	8.0
Oil pressure switch			14	1.4	10.0
Oil drain plug			21	2.1	15.0
Oil plug		6 mm	6	0.6	4.3
		8 mm	18	1.8	13.0
		10 mm	15	1.5	11.0
		14 mm	23	2.3	16.5
		16 mm	35	3.5	25.5
Engine mounting bolt		79	7.9	57.0	
Engine mounting bracket bolt			23	2.3	16.5
Frame mounting bolt/nut		8 mm	23	2.3	16.5
		10 mm	50	5.0	36.0
Exhaust pipe bolt			23	2.3	16.5
Exhaust pipe clamp bolt			23	2.3	16.5

ITEM	N⋅m	kgf-m	lbf-ft
Muffler mounting bolt	23	2.3	16.5
Muffler support bolt	23	2.3	16.5
Speed sensor rotor bolt	100	10.0	72.5
Rear turn signal bolt	11	1.1	8.0
License plate bracket nut	11	1.1	8.0
Rear turn signal bracket nut	11	1.1	8.0
Rear reflector mounting nut	1.8	0.18	1.3

SECONDARY AND FINAL

ITEM		N⋅m	kgf-m	lbf-ft
Secondary drive bevel gear bearing retainer bolt		23	2.3	16.5
Secondary driven bevel gear bolt		23	2.3	16.5
Secondary driven bevel gear bearing stopper		105	10.5	76.0
Final gear case mounting nut		40	4.0	29.0
Final drive bevel gear coupling nut		100	10.0	72.5
Final drive bevel gear bearing stopper		110	11.0	79.5
Final gear case oil drain plug		23	2.3	16.5
Final gear case bolt	8 mm	23	2.3	16.5
	10 mm	50	5.0	36.0
Final driven bevel gear bearing retainer screw		9	0.9	6.5

FI SYSTEM AND INTAKE AIR SYSTEM

ITEM	N⋅m	kgf-m	lbf-ft
ISC valve mounting screw	2.1	0.21	1.5
Straight plug mounting screw	5	0.5	3.5
STP sensor mounting bolt	3.5	0.35	2.5
TP sensor mounting bolt	3.5	0.35	2.5
ISC valve mounting bolt	2.1	0.21	1.5
Delivery pipe mounting screw	3.5	0.35	2.5
ECT sensor	18	1.8	13.0
HO2 sensor	25	2.5	18.0



CHASSIS

ITEM	N⋅m	kgf-m	lbf-ft
Front axle	65	6.5	47.0
Front axle pinch bolt	33	3.3	24.0
Brake disc bolt	23	2.3	16.5
Front fork cap bolt	45	4.5	33.1
Front fork spring stopper nut	35	3.5	25.5
Front fork damper rod bolt	20	2.0	14.5
Front fork upper clamp bolt	23	2.3	16.5
Front fork lower clamp bolt	33	3.3	24.0
Steering stem head nut	90	9.0	65.0
Front master cylinder mounting bolt	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	7.5	0.75	5.5
Handlebar set bolt	23	2.3	16.5
Handlebar holder nut	70	7.0	50.5
Front footrest bolt	55	5.5	40.0
Frame down tube mounting bolt (M8)	23	2.3	16.5
Frame down tube mounting bolt (M10)	50	5.0	36.0
Rear brake pedal bolt	11	1.1	8.0
Rear swingarm pivot bolt (Left)	100	10.0	72.5
Rear swingarm pivot bolt (Right)	9.5	0.95	7.0
Rear swingarm pivot bolt lock nut	100	10.0	72.5
Rear shock absorber monting nut (Upper and Lower)	50	5.0	36.0
Rear cushion lever/rod mounting nut	78	7.8	57.5
Rear axle nut	65	6.5	47.0
Rear torque link nut (front)	35	3.5	25.5
Rear torque link nut (rear)	25	2.5	18.0
Rear brake cam lever bolt	10	1.0	7.3
Driven joint stopper bolt	10	1.0	7.0
Frame handle grip mounting bolt (M10)	50	5.0	36.0
Fuel level gauge mounting bolt	10	1.0	7.0

