Features & Specifications 2018 Burgman 400



Key Features

- Fuel-injected DOHC 399cc, liquid-cooled, single-cylinder engine powers a seamless, CVT automatic transmission
- Stronger low-speed engine response with reduced emissions and better fuel economy
- All new luxurious and sporty bodywork with advanced LED lighting
- Increased frame rigidity and larger, 15-inch front wheel help improve stability and cornering performance
- Spacious underseat storage that can swallow two helmets plus a pair of front compartments with a DC power outlet provide a variety of cargo options

Overview

Already renowned as a premium, feature-rich scooter, the Suzuki Burgman 400 is all-new for 2018. The new Burgman 400 retains the key features that made this luxury scooter popular through the years, while combining improved chassis and engine performance with a sleek new, athletic body. The 2018 Burgman 400 establishes a new convenience and performance standard for mid-sized scooters while maintaining its highly regarded reputation for luxury, quality, comfort and running performance. The result is a more desirable Burgman 400 that truly delivers a winning combination of style, performance, practicality, convenience and riding enjoyment.

Engine Features

- Updated 399cc liquid-cooled, four-stroke, DOHC, single-cylinder, fuel-injected engine produces greater low-to-midrange torque and more powerful performance, even when riding with a passenger.
- DOHC 4-valve arrangement allows ideal positioning of the intake and exhaust valves for superior mechanical advantages and efficient combustion. The benefits can be felt in smooth, instantly available acceleration.



Engine Features (continued)

- The highly efficient new engine, which employs a new, long-life iridium spark plug, takes advantage of the scooter's lower weight to improve fuel economy and extend the riding range of the generous 3.6 gallon fuel tank.
- The refined Suzuki Fuel Injection system with O² feedback plus the Pulsed-secondary AIR-injection (PAIR) system and catalyzer-equipped exhaust boost fuel efficiency and help the Burgman easily achieve emissions compliance.
- The new 5-liter air cleaner assembly is 10% larger to aid throttle response and boost acceleration in stop-and-go traffic. Located under the seat, it has also been designed to emit an exciting intake sound.
- Automatic Idle Speed Control (ISC) system ensures proper engine idle speed at all times.
- The CVT (Continuously Variable Transmission) provides smooth, linear, practically shock-free power delivery for comfortable riding at any speed riding.

Chassis Features

- The Burgman 400's new underbone frame is constructed from large-diameter, thin-wall tubes that result in lower weight and increased rigidity, resulting in improved handling.
- Telescopic 41mm inner-tube front forks with a generous 4.3 inches of wheel travel, and the linktype mono shock absorber rear suspension has adjustable 7-way preload to deliver motorcycle-like handling with exceptional maneuverability.
- A new, larger 15-inch front wheel replaces the 14-inch wheel of the prior model to improve stability and enhance the visual appearance.
- The new front wheel carries a pair of 260mm disc brake rotors while the 13-inch rear wheel has a 210mm hydraulic disc brake for reliable stopping control.
- The standard Antilock Brake System (ABS)* monitors wheel speed, and matches stopping power to available traction. A new compact ABS control unit weighs 1.6 pounds less than the prior model.
- An easy-to-operate, T-handle parking brake lever is located on the dash near the ignition switch, to prevent rear wheel movement when engaged.
- The new upswept windscreen has a cleaner, more compact look from the front or sides while delivering optimum wind protection and a clear view of the road.
- The new bodywork conveys the luxurious, performance nature of the Burgman 400. The slimmer, sportier and more agile look matches the scooter's personality.
- The new nose features sharply styled dual LED headlights with integrated LED position lights and turn signals mounted beneath. The resulting effect is that of a cleaner and lighter front end that is instantly recognizable as belonging to the Suzuki Burgman family.
- The slim new rear deck of the Burgman 400 features independent LED rear combination lamps with the turn signals at their tips. It's a sharply sculpted design that expresses elegance and agility.



- Abundant luggage space includes a 42-liter under-seat storage compartment, large enough for two helmets, plus two front compartments for small personal items. Convenient switchable under-seat lights illuminate the entire storage area.
 - Helmet sizes and shapes vary, so some helmets may not fit in the under-seat compartment.
- The front bodywork contains two storage compartments; a 2.8-liter compartment on the left and a 3.5-liter compartment on the right that contains a convenient DC power outlet for charging electric devices on the fly.



Chassis Features (continued)

- The new stepped dual seat has nearly an inch thicker padding for more comfort. The width and profile is slimmer to add comfort for both the rider and passenger. The cover features double stitching and accent piping to further extend the look of luxury.
- To increase comfort, especially on longer rides, the seat incorporates a rider's backrest that is adjustable by 0.5-inch or 1-inch fore-and-aft at the press of a lever.
- The combination of the seat changes and floorboard position creates a more upright riding position that is more comfortable and sportier for the rider.
- Cut-away footboards allow the rider to comfortably move and support the scooter at stops and starts.
- Pillion rider footrests provide comfort, letting the passenger feel planted and relaxed, even during extended rides.
- A pair of ergonomically designed grab bars are mounted to the sides of the seat so the passenger can have a good, comfortable grip of the scooter.
- A security gate incorporated in the lower portion of the bodywork allows a chain lock to be passed through a body panel, then around the frame, and then around an immovable object.
- The ignition switch is fitted with a magnetic security cover that opens only with correctly coded key.
- The comprehensive and easy-to-read instruments incorporate an analog speedometer and tachometer plus a LCD display that provides odometer, twin tripmeter, clock, ambient temperature, average fuel consumption, fuel level, and coolant temperature readings. Other colored LED indicators provide turn signal, headlight, freeze and service function alerts.
- The LCD has a programmable oil service indicator to alert the rider when regular maintenance is required.
- The instruments also include the Suzuki Eco Drive Indicator that illuminates when the scooter is being ridden in a fuel efficient manner. This instant feedback helps the rider learn how to maximize the Burgman 400's fuel economy.

Additional Features

- Stylized Suzuki "S" 3-D emblems on the front leg shield and the upper meter panel denotes the quality and sophistication of the brand.
- A variety of Genuine Suzuki Accessories for Burgman owners are available including a large selection of Suzuki logo apparel.
- 12-month limited warranty.
- Longer warranty coverage period and other benefits are available through the Suzuki Extended Protection Plan (SEP).
- For more details, please visit www.suzukicycles.com.

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^{*} 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 drive carefully and do not overly rely on ABS.

Specifications AN400AL8 E-03: USA, E-33: California

Dimensions and curb mass

Item	Specification	Remark
Overall length	2235 mm (88.0 in)	_
Overall width	765 mm (30.1 in)	_
Overall height	1350 mm (53.1 in)	_
Wheelbase	1580 mm (62.2 in)	_
Ground clearance	125 mm (4.9 in)	_
Seat height	755 mm (29.7 in)	_
Curb mass	215 kg (474 lbs)	_

Engine

ltem	Item Specification	
Туре	Four-stroke, liquid-cooled, DOHC	_
Number of cylinders	1	_
Bore	81.0 mm (3.189 in)	_
Stroke	77.6 mm (3.055 in)	
Displacement	400 cm ³ (24.4 cu. in)	_
Compression ratio	10.6 : 1	_
Fuel system	Fuel injection	_
Air cleaner	Paper element	
Starter system	Electric	
Lubrication system	Wet sump	
ldle speed	1450 ± 100 r/min	_

Drive train

Item	Specification	Remark
Clutch	Dry shoe, automatic, centrifugal type	_
Gearshift pattern	Automatic	_
Final reduction ratio	6.484 (31/14 x 41/14)	_
Gear ratio	2.279 – 0.865 (Variable change)	_
Drive system	V-belt drive	_

Chassis

ltem	Specification	Remark
Front suspension	Telescopic, coil spring, oil damped	_
Rear suspension	Link type, coil spring, oil damped	_
Front fork stroke	110 mm (4.3 in)	_
Rear wheel travel	100 mm (3.9 in)	_
Steering angle	40° (right and left)	_
Caster	25° 12'	_
Trail	102 mm (4.02 in)	_
Turning radius	2.7 m (8.9 ft)	_
Front brake	Disc brake, twin	_
Rear brake	Disc brake	_
Front tire size	120/70-15M/C 56S, tubeless	_
Rear tire size	150/70-13M/C 64S, tubeless	_



Specifications AN400AL8 E-03: USA, E-33: California

Electrical

Item	Specification	Remark	
Ignition type	Electronic ignition (Transistorized)	_	
Spark plug	NGK CR7EIA-9		
	DENSO IU22D	_	
Battery	12 V 32.4 kC (9 Ah)/10 HR	_	
Generator	Three-phase A.C. generator	_	
Fuse	30/10/10/15/10/15 A	_	

Item	Specification	Remark
ABS fuse	30 A	_
Headlight	LED	_
Position light	LED	_
Brake light/Taillight	LED	_
Turn signal light	12 V 21 W	_
License plate light	12 V 5 W	_
Instrument panel light	LED	_
High beam indicator light	LED	_
Turn signal indicator light	LED	_
Engine coolant temperature indicator light	LED	_
MIL	LED	_
Brake lock indicator light	LED	_
Freeze indicator light	LED	_
ECO mode indicator light	LED	_
ABS indicator light	LED	_

Capacities

	ltem	Specification	Remark
Fuel tank		13.5 L (3.6 US gal, 3.0 Imp gal)	_
Engine oil	Oil change	1200 ml (1.3 US qt, 1.1 lmp qt)	_
Engine on	With filter change	1300 ml (1.4 US qt, 1.1 lmp qt)	_
Final gear oil	Oil change	180 ml (6.0/6.3 US/Imp oz)	_
Engine coo	lant	1950 ml (2.1 US qt, 1.7 lmp qt)	_



Service Data AN400AL8 E-03: USA, E-33: California

NOTE

Specifications and service data are subject to change without notice.

Emission Control Devices

Item	Specification	Standard	Limit
EVAP system purge control solenoid			
valve power supply voltage (if		Battery voltage	_
equipped)			
EVAP system purge control solenoid	30 °C (68 °E)	30 – 34 Ω	
valve resistance (if equipped)	20 °C (68 °F)	30 – 34 \(\text{12} \)	_

Engine Electrical Devices

Item	Specification	Standard	Limit
IAP sensor power supply voltage		4.5 – 5.5 V	_
IAP sensor output voltage	Idle speed at 1 atm.	1.5 – 3.5 V	_
IAT sensor power supply voltage		4.5 – 5.5 V	_
IAT sensor resistance	40 °C (104 °F)	1041 – 1231 Ω	_
ECT sensor power supply voltage		4.5 – 5.5 V	_
ECT sensor resistance	40 °C (104 °F)	1041 – 1231 Ω	_
TP sensor power supply voltage		4.5 – 5.5 V	_
TP sensor output voltage	Closed	0.58 – 0.62 V	
TP sensor output voltage	Opened	3.68 – 3.88 V	<u> </u>
ISC valve resistance	20 °C (68 °F)	80 Ω	_
HO2 consor output voltage	Idle speed	0.6 V or less	
HO2 sensor output voltage	5000 r/min	0.6 V or more	<u> </u>
HO2 sensor heater power supply		Pottony voltage	
voltage		Battery voltage	_
HO2 sensor heater resistance	23 °C (73.4 °F)	11.5 – 17.5 Ω	_
CKP sensor peak voltage	When cranking	2 V or more	_
CKP sensor resistance	20 °C (68 °F)	50 – 200 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	1 -
TO sensor resistance		16500 – 22300 Ω	_
ECM power supply voltage		Battery voltage	_

Engine Mechanical

Item	Specification	Standard	Limit
	Without EVAP Control	19K0	
Throttle body I.D. No.	System	1910	_
	With EVAP Control System	19K1	_
Throttle body bore size		36 mm (1.4 in)	_
Throttle cable play		2.0 – 4.0 mm (0.079 – 0.16 in)	_
Idle speed	When engine warmed	1450 ± 100 r/min	_
Fast idle speed		1450 – 1700 r/min	_
		900 – 1100 kPa	620 kPa
Compression pressure		(9.2 – 11.2 kgf/cm ² , 131 – 159 psi)	(6.4 kgf/cm ² ,
		(9.2 - 11.2 kg//Gill , 131 - 139 psi/	90 psi)
	Intake	36.28 – 36.32 mm	35.98 mm
Cam height	IIIIake	(1.4284 – 1.4299 in)	(1.4166 in)
	Exhaust	35.78 – 35.82 mm	35.48 mm
	Exhaust	(1.4087 – 1.4102 in)	(1.3969 in)



Item	Specifica	ition	Standard	Limit
	Intake		0.019 – 0.053 mm	0.150 mm
Comphett journal oil placeanes	IIItake		(0.0008 – 0.0020 in)	(0.0059 in)
Camshaft journal oil clearance	Full accet		0.019 – 0.053 mm	0.150 mm
	Exhau	ા	(0.0008 – 0.0020 in)	(0.0059 in)
	Latalia		22.012 – 22.025 mm	
Canada officiona al baldon I D	Intake		(0.8662 – 0.8671 in)	
Camshaft journal holder I.D.	F. de e	_4	22.012 – 22.025 mm	_
	Exhau	St	(0.8662 – 0.8671 in)	
	Intoles		21.972 – 21.993 mm	
Carach off incomed C.D.	Intake)	(0.8651 – 0.8658 in)	_
Camshaft journal O.D.	E. In a	_4	21.972 – 21.993 mm	
	Exhau	St	(0.8651 – 0.8658 in)	
Camshaft runout	Intake & Ex	chaust	_	0.10 mm
	At arrow	"O"	15th nin	(0.003 in)
Cam chain pin	At allow	<u> </u>	15th pin 0.10 – 0.20 mm	<u> </u>
	When engine	Intake		
Valve clearance	When engine		(0.004 – 0.007 in) 0.20 – 0.30 mm	_
	cold	Exhaust		
	Intelle		(0.008 – 0.011 in)	
Valve diameter	Intake		31.0 mm (1.22 in)	_
	Exhau	Sí	27.0 mm (1.06 in)	0.0E :
Valve stem runout	Intake & Ex	khaust	_	0.05 mm
				(0.0019 in)
Valve head radial runout	Intake & Exhaust		<u> </u>	0.03 mm
				(0.0011 in)
	Intake		_	0.5 mm
Valve head thickness	Exhaust			(0.020 in)
			<u> </u>	0.5 mm
				(0.020 in)
Valve stem deflection	Intake & Exhaust		<u> </u>	0.35 mm
			4.475 – 4.490 mm	(0.013 in)
	Intake			_
Valve stem O.D.			(0.1762 – 0.1767 in) 4.455 – 4.470 mm	
	Exhaust			_
			(0.1754 – 0.1759 in) 0.9 – 1.1 mm	
	Intake	9		_
Valve seat width			(0.036 – 0.043 in) 0.9 – 1.1 mm	
	Exhau	st		_
			(0.036 – 0.043 in) 4.500 – 4.512 mm	
	Intake)		_
Valve guide I.D.			(0.1772 – 0.1776 in) 4.500 – 4.512 mm	
	Exhau	st	4.500 – 4.512 mm (0.1772 – 0.1776 in)	_
			0.010 – 0.037 mm	
	Intake	9	(0.0004 – 0.0014 in)	_
Valve guide to valve stem clearance			0.0004 – 0.0014 In) 0.030 – 0.057 mm	
	Exhau	st	(0.0012 – 0.0022 in)	_
			(0.0012 - 0.0022 111)	20 1 mm
	Intake	9	_	38.1 mm
Valve spring free length				(1.50 in) 38.1 mm
	Exhaust		_	(1.50 in)
	When		100 – 115 N	(1.50 111)
		Intake		_
Valve spring pre-load	compressed to 33.35 mm		(10.2 – 11.7 kgf, 22.5 – 25.8 lbf) 100 – 115 N	
	(1.313 in)	Exhaust	(10.2 – 11.7 kgf, 22.5 – 25.8 lbf)	_
	(1.313111)		(10.2 - 11.7 kgi, 22.5 - 25.6 lbl)	0.05 mm
Cylinder head distortion			_	0.05 mm (0.0019 in)
				(0.0019111)



Item	Specification	Standard	Limit
Cylinder distortion		<u>_</u>	0.05 mm
Cylinder distortion			(0.0019 in)
Cylinder bore		81.000 – 81.015 mm	No nicks or
Symidor Boro		(3.1890 – 3.1895 in)	Scratches
Piston diameter	Measure at 15 mm (0.59	80.970 – 80.985 mm	80.880 mm
r lotori didiriotor	in) from the skirt end.	(3.1878 – 3.1883 in)	(3.1843 in)
Piston to cylinder clearance		0.025 – 0.035 mm	0.120 mm
		(0.0010 – 0.0013 in)	(0.0047 in)
	1st	_	0.180 mm
Piston ring to groove clearance			(0.0070 in)
	2nd	_	0.150 mm
		0.83 – 0.85 mm	(0.0059 in)
		(0.0327 – 0.0334 in)	_
	1st	1.30 – 1.32 mm	
		(0.0512 – 0.0519 in)	_
Piston ring groove width		1.01 – 1.03 mm	
	2nd	(0.0398 – 0.0405 in)	_
		2.01 – 2.03 mm	
	Oil	(0.0792 – 0.0799 in)	_
		0.76 – 0.81 mm	
		(0.0300 – 0.0318 in)	_
	1st	1.08 – 1.10 mm	
Piston ring thickness		(0.0426 – 0.0433 in)	_
		0.97 – 0.99 mm	
	2nd	(0.0382 – 0.0389 in)	_
Distance since from and and	1st	Approx. 6.5 mm (0.256 in)	5.2 mm (0.205 in)
Piston ring free end gap	2nd	Approx. 9.0 mm (0.354 in)	7.2 mm (0.284 in)
	1st	0.06 – 0.18 mm	0.50 mm
Piston ring end gap	130	(0.0024 – 0.0070 in)	(0.019 in)
l istorring cha gap	2nd	0.06 – 0.18 mm	0.50 mm
	ZIIG	(0.0024 – 0.0070 in)	(0.019 in)
Piston pin bore I.D.		20.002 – 20.008 mm	20.030 mm
		(0.7875 – 0.7877 in)	(0.7885 in)
Piston pin O.D.		19.992 – 20.000 mm	19.980 mm
		(0.7871 – 0.7874 in)	(0.7867 in)
Conrod small end I.D.		20.006 – 20.014 mm	20.040 mm
		(0.7877 – 0.7879 in)	(0.7889 in)
Conrod deflection		_	3.0 mm (0.11 in)
		0.10 – 0.65 mm	1.0 mm
Conrod big end side clearance		(0.0039 – 0.0256 in)	(0.039 in)
		21.95 – 22.00 mm	(0.009 111)
Conrod big end width		(0.8642 – 0.8661 in)	_
		59.9 – 60.1 mm	
Crank web to web width		(2.359 – 2.366 in)	_
Crankshaft runout		_	0.080 mm (0.0031 in)
Balancer spring free length		_	21.9 mm (0.862 in)

Engine Lubrication System

Item	Specification	Standard	Limit
Oil pressure	At 60 °C (140 °F), 3000 r/min	30 – 110 kPa (0.31 – 1.12 kgf/cm², 4.36 – 15.9 psi)	_

Item	Specification	Standard	Limit
	Oil change	1200 ml (1.3 US qt, 1.1 lmp qt)	
Necessary amount of engine oil	Oil and filter change	1300 ml (1.4 US qt, 1.1 lmp qt)	_
	Engine overhaul	1500 ml (1.6 US qt, 1.3 lmp qt)	

Cooling System

Item	Specification	Standard	Limit
	Engine side	Approx. 1700 ml	
Engine coolant		(1.80 US qt, 1.50 Imp qt)	
Lingine coolant	Reserve tank side	Approx. 250 ml	_
	ixeserve talk side	(0.26 US qt, 0.22 Imp qt)	
Radiator cap valve opening pressure		93.3 – 122.7 kPa	
Tradiator cap valve opening pressure		(1.0 – 1.2 kgf/cm ² , 13.6 – 17.7 psi)	_
Cooling fan relay power supply		Battery voltage	
voltage		, 0	_
	$OFF \to ON$	Approx. 105 °C	
Cooling fan operating temperature		(221 °F)	
	$ON \to OFF$	Approx. 100 °C	
	O14 7 O1 1	(212 °F)	
Thermostat valve opening		85.5 – 88.5 °C	_
temperature		(186 – 191 °F)	
Thermostat valve lift	95 °C (203 °F)	3.0 mm (0.12 in) or more	_

Fuel System

Item	Specification	Standard	Limit
Fuel injector power supply voltage		Battery voltage	_
Fuel injector resistance	24 °C (75 °F)	11.4 – 12.6 Ω	_
FP relay power supply voltage		Battery voltage	_
FP discharge amount	Per 10 seconds	41.6 ml (1.40 US oz, 1.46 lmp oz) or more	_
Fuel pressure		289 – 299 kPa (2.95 – 3.04 kgf/cm², 42.0 – 43.3 psi)	_

Ignition System

Item	Specification	Standard	Limit
	Type	DENSO: IU22D	
Spark plug	Туре	NGK: CR7EIA-9	-
	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		150 V or more	_
Ignition coil resistance	Primary	1.87 – 2.53 Ω	
Ignition con resistance	Secondary	18800 – 23200 Ω	

Starting System

Item	Specification	Standard	Limit
Starter motor brush length		7.0 mm (0.28 in)	3.5 mm (0.14 in)
Starter relay resistance		3 – 6 Ω	_
	ON (Side-stand retracted)	0.4 – 0.6 V	
Side-stand switch voltage	OFF (Side-stand on the ground)	1.4 V or more	_



Charging System

Item	Specifi	ication	Standard	Limit
Battery leakage current			3 mA or less	_
Regulated voltage	Charging output	At 5000 r/ min	14.0 – 15.0 V	_
Generator coil resistance			0.1 – 0.5 Ω	_
Generator no-load voltage	When engine cold	At 5000 r/ min	50 V (AC) or more	_
Reaching time	Standard charging		0.9 A for 5 to 10 hours	
	Fast ch	narging	4 A for 1 hour	_
Generator Max. output	At 5000	o r/min	Approx. 350 W	_
	Type designation		FTZ9-BS	
Battery	Сара	acity	12 V 32.4 kC (9 Ah)/10 HR	_

Front Suspension

Item	Specification	Standard	Limit
Front fork inner tube O.D.		41 mm (1.6 in)	_
Front fork oil level	Without spring, inner tube fully compressed	87 mm (3.4 in)	_
Front fork spring free length		344.6 mm (13.57 in)	337 mm (13.3 in)
Front fork oil capacity	Each leg	301 ml (10.18 US oz, 10.59 lmp oz)	_

Rear Suspension

Item	Specification	Standard	Limit
Rear shock absorber spring adjuster		3rd position from softest end	_

Wheels and Tires

Item	Specif	ication	Standard	Limit	
	Front	Axial &		2.0 mm	
Wheel rim runout	110111	Radial	_	(0.08 in)	
Villeeriiiii Tullout	Rear	Axial &		2.0 mm	
	INGAI	Radial	_	(0.08 in)	
Wheel axle runout	Front 8	Rear		0.25 mm	
Wileel axie fullout	1 TOTAL C	x Neai	_	(0.010 in)	
Tire size	Fro	ont	120/70-15M/C 56S		
THE SIZE	Re	ear	150/70-13M/C 64S	_	
Tire type	Fro	ont	DUNLOP/SCOOTSMART G	_	
Tire type	Re	ear	DUNLOP/SCOOTSMART G		
		Front		1.6 mm	
Tire tread depth	Recommend	TIOIIL	_	(0.062 in)	
The tread depth	depth	depth Rear —		2.0 mm	
		Neai	_	(0.078 in)	
	Solo riding	Front	200 kPa (2.00 kgf/cm ² , 29 psi)		
Cold inflation tire pressure	3010 Halling	Rear	200 kPa (2.00 kgf/cm ² , 29 psi)	_	
Cold illiation the pressure	Dual riding	Front	200 kPa (2.00 kgf/cm ² , 29 psi)	_	
	Dual fluing	Rear	250 kPa (2.50 kgf/cm ² , 36 psi)		
Wheel rim size	Fro	ont	15 M/C × MT 3.50		
VVIIGGI IIIII SIZG	Re	ear	13 M/C × MT 4.00	_	

Drive Chain / Drive Train / Drive Shaft

Item	Specification	Standard	Limit
Final gear oil capacity	When oil change	180 ml (6.09 US oz, 6.34 lmp oz)	_
I mai gear on capacity	When overhaul	190 ml (6.42 US oz, 6.69 lmp oz)	_



Brake Control System and Diagnosis

ltem	Specification	Standard	Limit
Master cylinder bore / piston diameter-	Front	Approx. 14.0 mm (0.55 in)	
iviasiei cyllindei bole / pistori diameter	Rear	Approx. 12.7 mm (0.50 in)	

Front Brakes

Item	Specification	Standard	Limit
Front brake disc thickness		4.5 mm (0.18 in)	4.0 mm (0.16 in)
Front brake disc runout		_	0.30 mm (0.012 in)
Front brake caliper cylinder bore / piston diameter		Approx. 25.4 mm (1.00 in)	_

Rear Brakes

ltem	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. 27.0 mm (1.06 in)	_

Brake Lock

Item	Specification	Standard	Limit
Proko look apple adjusting margin		0 – 1.25 mm	
Brake lock cable adjusting margin		(0 – 0.04 in)	_

ABS

ltem	Specification	Standard	Limit
Wheel speed sensor – sensor rotor	Front	0.360 – 1.620 mm (0.015 – 0.063 in)	_
clearance	Rear	0.156 – 1.624 mm (0.007 – 0.063 in)	_

CVT

Item	Specification	Standard	Limit
Drive V-belt width		26.1 mm (1.03 in)	25.1 mm
Drive v-beit width		20.1 11111 (1.03 111)	(0.99 in)
Movable driven face spring free		145.0 mm (5.71 in)	137.8 mm
length		145.0 11111 (5.7 1 111)	(5.425 in)
Face abrasion			0.4 mm
		_	(0.01 in)
Clutch engagement		2200 – 2800 r/min	
Clutch lock-up		4800 – 5800 r/min	
Clutch wheel I.D.		160.0 – 160.2 mm	160.5 mm
Cidicii wheel i.D.		(6.300 – 6.307 in)	(6.318 in)
Clutch shoe thickness		5.0 mm (0.20 in)	2.0 mm
Ciuton silve tillokiless		3.0 11111 (0.20 111)	(0.07 in)

Steering / Handlebar

Item	Specification	Standard	Limit
Stooring tonsion initial force		2 – 5 N	
Steering tension initial force		(0.2 – 0.5 kgf, 0.5 – 1.1 lbf)	_



Wiring Systems

Item	Specif	ication	Standard	Limit
	Headlight	HI	10 A	_
	Headilght	LO	10 A	_
	Me	eter	15 A	_
Fuse size	Ign	ition	10 A	_
	Signal		15 A	_
	Power	source	10 A	_
	F	an	15 A	_
	AE	38	30 A	_
	Ma	ain	30 A	_

Lighting Systems

Item	Specification	Standard	Limit
Headlight	High beam	LED	
	Low beam		_
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
Tachometer light		LED	_
Speedometer light		LED	_
Instrument panel light		LED	_
Turn signal indicator light		LED	_
MIL		LED	_
Engine coolant temperature indicator		LED	
light		LLD	_
ABS indicator light		LED	_
High beam indicator light		LED	_
Brake lock indicator light		LED	_
Freeze indicator light		LED	_
ECO mode indicator light		LED	_



Tightening Torque List

Emission Control Devices

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
EVAP system purge control solenoid valve nut	6.7	0.68	4.95

Engine Electrical Devices

Eactoning part		Tightening torque		
Fastening part	N⋅m	kgf-m	lbf-ft	
IAT sensor screw	1.3	0.13	0.95	
ECT sensor	12	1.2	9.0	
HO2 sensor	25	2.5	18.5	
ISC valve screw	2.1	0.21	1.55	

Engine Mechanical

Eastening next	Tightening torque			
Fastening part	N⋅m	kgf-m	lbf-ft	
Air cleaner box mounting bolt	10	1.0	7.5	
Air cleaner outlet tube clamp screw	1.5	0.15	1.10	
Intake pipe No.2 clamp screw	1.5	0.15	1.10	
Intake pipe No.1 bolt	10	1.0	7.5	
EVAP system purge control solenoid valve bracket bolt	4.5	0.46	3.35	
Cylinder head cover bolt	15	1.5	11.0	
Camshaft journal holder bolt	11	1.1	8.5	
Cam chain tension adjuster bolt	10	1.0	7.5	
Spring holder bolt	23	2.3	17.0	
Cylinder head bolt (L190)	25 N·m → 43 N·m	$(2.5 \text{ kgf-m} \rightarrow 4.4 \text{ kg})$	gf-m, 18.5 lbf-ft →	
	32.0 lbf-ft)			
Cylinder head bolt (L130)	26	2.7	19.5	
Water inlet connector bolt	10	1.0	7.5	
Cam chain guide No.1 bolt	23	2.3	17.0	
Cam chain tensioner bolt	23	2.3	17.0	
Oil gallery plug (cylinder head)	11	1.1	8.5	
Intake pipe No.2 bolt	10	1.0	7.5	
Air cleaner bracket bolt	10	1.0	7.5	
Engine mounting nut	93	9.5	68.5	
Cushion rod rear nut	50	5.1	37.0	
Crankcase bolt (M8)	22	2.2	16.5	
Crankcase bolt (M6)	11	1.1	8.5	
Balancer drive gear nut	150	15.3	111.0	
Oil pump drive gear nut	29	3.0	21.5	
Balancer driven gear nut	50	5.1	37.0	
Crankcase bracket nut	85	8.7	63.0	
Rubber damper bolt	85	8.7	63.0	

Engine Lubrication System

Fastening part	Tightening torque		
	N·m	kgf-m	lbf-ft
Oil gallery plug	16	1.6	12.0
Oil drain plug	23	2.3	17.0
Oil pump mounting bolt	10	1.0	7.5

Engine Cooling System

Fastening part		Tightening torque		
	N⋅m	kgf-m	lbf-ft	
Air bleeding bolt	6.0	0.61	4.45	
Cooling fan mounting bolt	6.5	0.66	4.80	
Radiator mounting bolt	10	1.0	7.5	



Fastening part		Tightening torque		
	N⋅m	kgf-m	lbf-ft	
Radiator hose clamp	1.5	0.15	1.10	
Reservoir tank bolt	6.0	0.61	4.45	
Reservoir tank bracket bolt	10	1.0	7.5	
Water hose clamp bolt	10	1.0	7.5	
Radiator conduction bolt	6.0	0.61	4.45	
Thermostat cover bolt	12	1.2	9.0	
Water pump bolt	10	1.0	7.5	
Water pump cover screw	5.5	0.56	4.05	

Fuel System

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Fuel feed hose bolt	10	1.0	7.5
Fuel cut valve bolt	3.5	0.36	2.60
Fuel pump mounting bolt	10	1.0	7.5

Ignition System

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Spark plug	11	1.1	8.5
Ignition coil bolt	4.5	0.46	3.35
Seat lock cable bolt	8.0	0.82	5.90

Starting System

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Starter motor mounting bolt	10	1.0	7.5
Starter motor lead wire bolt	3.0	0.31	2.25
Starter motor housing bolt	4.0	0.41	2.95
Starter clutch bolt	26	2.7	19.5

Charging System

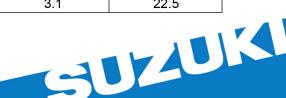
Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Generator stator bolt	10	1.0	7.5
CKP sensor bolt	5.0	0.51	3.70
Generator rotor bolt	160	16.3	118.0

Exhaust System

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Exhaust pipe nut	25	2.5	18.5
Muffler connector bolt	23	2.3	17.0
Muffler support bolt	23	2.3	17.0
Muffler rear cover stay No.2 bolt	10	1.0	7.5
Muffler rear cover stay No.1 bolt	10	1.0	7.5
Muffler rear cover bolt	10	1.0	7.5
Muffler cover bolt	10	1.0	7.5

Front Suspension

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Front fork cap	45	4.6	33.5
Front fork clamp bolt	23	2.3	17.0
Cylinder bolt	30	3.1	22.5



Rear Suspension

Fastening part		Tightening torque		
	N⋅m	kgf-m	lbf-ft	
Rear shock absorber rear nut	50	5.1	37.0	
Cushion rod front nut	50	5.1	37.0	
Rear shock absorber front bolt	50	5.1	37.0	
Cushion lever center nut	80	8.2	59.0	
Cushion rod rear nut	50	5.1	37.0	
Rear swingarm bolt	50	5.1	37.0	
Rear axle nut	120	12.2	88.5	

Wheels and Tires

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Front axle	65	6.6	48.0
Front axle pinch bolt	23	2.3	17.0

Drive Chain / Drive Train / Drive Shaft

Fastening part	Tightening torque		
	N·m	kgf-m	lbf-ft
Oil level plug	16	1.6	12.0
Oil drain plug	12	1.2	9.0
Final gear cover bolt	22	2.2	16.5
Rear axle bearing retainer screw	8.5	0.87	6.30
Idle shaft bearing retainer screw	8.5	0.87	6.30

Brake Control System and Diagnosis

Eastoning part		Tightening torque		
Fastening part	N⋅m	kgf-m	lbf-ft	
Front brake air bleeder valve	6.0	0.61	4.45	
Rear brake air bleeder valve	6.0	0.61	4.45	
Front brake master cylinder holder bolt	10	1.0	7.5	
Brake hose union bolt	23	2.3	17.0	
Brake light switch mounting screw	1.2	0.12	0.90	
Brake lever pivot bolt	5.9	0.60	4.35	
Brake lever pivot bolt lock-nut	5.9	0.60	4.35	
Rear brake master cylinder holder bolt	10	1.0	7.5	

Front Brakes

Eastoning nort		Tightening torque		
Fastening part	N⋅m	kgf-m	lbf-ft	
Front brake caliper mounting bolt	35	3.6	26.0	
Front brake pad mounting pin	17	1.7	12.5	
Brake hose union bolt	23	2.3	17.0	
Sliding pin nut	22	2.2	16.5	
Sliding pin bolt	17	1.7	12.5	
Front brake air bleeder valve	6.0	0.61	4.45	
Front brake disc bolt	23	2.3	17.0	

Rear Brakes

Fastening part	Tightening torque		
	N·m	kgf-m	lbf-ft
Pad mounting pin	17	1.7	12.5
Caliper mounting bolt	23	2.3	17.0
Brake hose union bolt	23	2.3	17.0
Rear brake air bleeder valve	6.0	0.61	4.45
Brake-lock housing bolt	22	2.2	16.5
Rear brake disc bolt	35	3.6	26.0



Brake Lock

Eastoning part	Tightening torque		
Fastening part	N⋅m	kgf-m	lbf-ft
Lock-nut	9.3	0.95	6.85
Bake lock housing bolt	22	2.2	16.5

ABS

Fastening part	Tightening torque		
rastering part	N⋅m	kgf-m	lbf-ft
Front wheel speed sensor rotor bolt	6.3	0.64	4.65
Rear wheel speed sensor rotor bolt	6.3	0.64	4.65
Brake hose union bolt	23	2.3	17.0

CVT

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Cooling fan duct hose clamp screw	1.5	0.15	1.10
Bearing retainer bolt	8.5	0.87	6.30
Fixed drive face nut	105	10.7	77.5
Clutch housing nut	85	8.7	63.0
Clutch shoe nut	105	10.7	77.5
Belt cooling duct hose clamp screw	1.5	0.15	1.10

Steering / Handlebar

Fastening part		Tightening torque		
rastering part	N⋅m	kgf-m	lbf-ft	
Handlebar clamp bolt	23	2.3	17.0	
Handlebar balancer screw	5.5	0.56	4.05	
Front brake master cylinder holder bolt	10	1.0	7.5	
Rear brake master cylinder holder bolt	10	1.0	7.5	
Steering stem lock-nut	30	3.1	22.5	
Steering stem nut	30 N·m (3.1 kgf-m,	22.5 lbf-ft) → turn (counterclockwise 1/	
	4 – 1/2			
Handlebar holder set bolt	23	2.3	17.0	
Handlebar holder clamp bolt	55	5.6	40.5	

Lighting Systems

Fastening part	Tightening torque		
rastering part	N⋅m	kgf-m	lbf-ft
Headlight screw	2.3	0.23	1.70
License light screw	2.0	0.20	1.50
Rear reflex reflector nut	1.8	0.18	1.35

Combination Meter / Fuel Meter / Horn

Factoning part	Tightening torque		
Fastening part	N⋅m	kgf-m	lbf-ft
Horn bolt	23	2.3	17.0

Exterior Parts

Fastening part	Tightening torque		
	N⋅m	kgf-m	lbf-ft
Seat hinge bracket bolt	10	1.0	7.5
Seat hinge nut	5.5	0.56	4.05
Pillion rider handle bolt	23	2.3	17.0
Rear combination light screw	2.0	0.20	1.50
Seat striker bolt	8.0	0.81	5.90
Combination meter bolt	2.0	0.20	1.50
Headlight nut	5.5	0.56	4.05



Fastening part	Tightening torque		
rastening part	N⋅m	kgf-m	lbf-ft
Headlight bolt	8.5	0.87	6.30
Front turn signal screw	2.3	0.23	1.70

Special Tools and Equipment

Fuel / Oil / Fluid / Coolant Recommendation **Fuel**

NOTICE

Do not use leaded gasoline. If it is used, the engine and the emission control system will be damaged.

Use unleaded gasoline with an octane rating of 87 AKI or

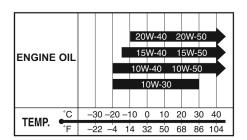
Unleaded gasoline containing up to 10% ethanol by volume may be used.

Engine Oil

Use engine oils which meet the following requirements.

	Engine oil
API service	SG, SH, SJ or SL
classification	36, 311, 33 01 3L
JASO T903 standard	MA
Viscosity	SAE 10W-40

If SAE 10W-40 engine oils are not available, select oils of an appropriate viscosity grade according to the following chart.



Suzuki does not recommend the use of engine oil which have an "ENERGY CONSERVING" indication in the API service symbol for any of its motorcycles / ATVs. It can affect the engine life and the clutch performance.



Suzuki recommends the use of SUZUKI PERFORMANCE 4 MOTOR OIL.

Brake Fluid

Specification and classification: DOT 4

▲ WARNING

Since the brake system of this motorcycle is filled with a glycol-based brake fluid by the manufacturer, do not use or mix different types of fluid such as silicone-based and petroleum-based fluid for refilling the system. otherwise serious damage will result. Do not use any brake fluid taken from old or used or unsealed containers. Never reuse brake fluid left over from a

previous servicing, which has been stored for a long period.

Engine Coolant

Suzuki recommends the use of SUZUKI LONG LIFE COOLANT or SUZUKI SUPER LONG LIFE COOLANT.

If SUZUKI COOLANT is not available, use an antifreeze/engine coolant compatible with an aluminum radiator, mixed with distilled water only.

For SUZUKI LONG LIFE COOLANT

NOTICE

- Use a high quality ethylene glycol base anti-freeze, mixed with distilled water. Do not mix an alcohol base anti-freeze and different brands of anti-freeze.
- Do not put in more than 60% anti-freeze or less than 50%. (Refer to Fig. 1 and 2.)

The 50:50 mixture of distilled water and ethylene glycol anti-freeze will provide the optimum corrosion protection and excellent heat protection, and will protect the cooling system from freezing at temperatures above -31 °C (-24

If the vehicle is to be exposed to temperatures below -31 °C (-24 °F), this mixing ratio should be increased up to 55% or 60% according to the figure.

Anti-freeze Proportioning Chart

Anti-freeze density	Freezing point
50%	–31 °C (–24 °F)
55%	–40 °C (–40 °F)
60%	–55 °C (–67 °F)



Fig.1: Engine coolant density-freezing point curve

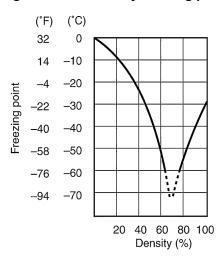
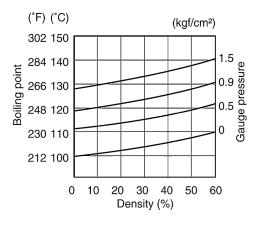


Fig.2: Engine coolant density-boiling point curve



For SUZUKI SUPER LONG LIFE COOLANT

NOTICE

- Ethanol or methanol base coolant or water alone should not be used in cooling system at any time as damage to cooling system could occur.
- Do not mix the distilled water, SUZUKI LONG LIFE COOLANT (coolant color: Green) or equivalent.

SUZUKI SUPER LONG LIFE COOLANT will provide the optimum corrosion protection and excellent heat protection, and will protect the cooling system from freezing at temperatures above –36 °C (–33 °F).

Anti-freeze concentration table

Anti-freeze density	Freezing point
50%	−36 °C (−33 °F)

Water for mixing

Use distilled water only. Water other than distilled water can corrode and clog the aluminum radiator. For engine coolant mixture information, refer to "Engine Coolant".

NOTICE

Mixing of anti-freeze/engine coolant should be limited to 60%. Mixing beyond it would reduce its efficiency. If the anti-freeze/engine coolant mixing ratio is below 50%, rust inhabiting performance is greatly reduced. Be sure to mix it above 50% even though the atmospheric temperature does not go down to the freezing point.

Anti-freeze / Engine coolant

The engine coolant perform as a corrosion and rust inhibitor as well as anti-freeze. Therefore, the engine coolant should be used at all times even though the atmospheric temperature in your area does not go down to freezing point.

Suzuki recommends the use of SUZUKI COOLANT antifreeze/engine coolant. If this is not available, use an equivalent which is compatible with an aluminum radiator.

Front Fork Oil

Use SUZUKI FORK OIL G-10.

Fork oil 99000-99044-10G (SUZUKI FORK OIL G-10)

