

Features & Specifications

2019 RMX450Z



RMX450ZL9

YU1: Champion Yellow No.2

Key Features

- Fuel-injected engine is based on Suzuki's winning open-class motocrosser; the RM-Z450.
- The RMX450Z is EPA Emissions and California Red-sticker compliant.
- Trail-ready features include an electric starter powered by a compact battery (plus kick-start back-up), a coolant reservoir tank and an engine protector plate.
- Enduro-ready, full-function instrument cluster includes a low fuel level warning light.
- The airbox features a hinged lid for quick air-filter maintenance.
- Aluminum-alloy twin-spar frame with high-performance SHOWA fork and piggyback-reservoir style rear shock.
- Competition-developed seat and slim bodywork creates a controllable, ergonomic riding position.
- The racing-inspired bodywork and new graphics for 2019 includes a sturdy steering stem that is anodized black, complementing the gold fork leg finish.
- Black-anodized EXCEL aluminum rims are ready to withstand rugged off-road conditions.

Overview

Powered by torquey fuel-injected 449cc engine, the 2019 RMX450Z is the motorcycle that's ideal for serious off-road work or just a fun day on the trails. Everything you need to take the lead off-road is here starting with the slim, aggressively styled chassis and bodywork. Toss in the push-button electric starter, the full-function, two-mode instrument cluster, and enduro lighting you have the conveniences that take the worry out of your ride. Sharing core engine and chassis technology plus new bodywork colors and graphics with Suzuki's Championship-winning open-class motocrosser, the RMX450Z rewrites the rules for serious trail riders.

Engine Features

- 449cc 4-stroke, 4-valve, liquid-cooled, fuel-injected DOHC powerplant is based on the high-performance and reliable RM-Z450.
- Minimal differences as compared to the RM-Z450 motocross engine includes a modified inlet tract and revised cam profiles to increase low and mid-rpm power.

Engine Features (continued)

- The compact aluminum cylinder is finished with Suzuki Composite Electrochemical Material (SCEM) coating for durability, light weight and efficient heat transfer.
- A larger magneto-generator is fitted to charge the battery and power the lights. The increased mass also aids traction.
- Advanced fuel-injection system makes for extra-smooth power delivery, high fuel efficiency, and superb reliability.
- The airbox features a hinged lid for quick air-filter maintenance and better protection from debris.
- The coolant reservoir tank has a specially located filler cap for easy access.

Transmission Features

- Strong 5-speed transmission with wide gear ratios and primary/final drive ratios selected to suit various situations from steep trails to open terrain.

Chassis Features

- The aluminum-alloy twin-spar frame combines cast and extruded sections to achieve low weight with high rigidity and durability.
- RM-Z-style, trail-ready suspension uses a high-performance SHOWA fork with full adjustability.
- Aluminum, link-style swingarm is descended from the RM-Z line and uses a fully adjustable SHOWA piggyback-reservoir style rear shock.
- Rear suspension linkage geometry combines the RM-Z series' renowned turning-on-rails abilities with optimized handling performance for trail rides.
- Race-inspired waved disc rotors are mounted to black EXCEL aluminum rims with stainless steel spokes.
- High-impact, black plastic fork leg, plus rear brake rotor and caliper protectors shield these components from trail obstacles.
- The standard Renthal Fatbar is stronger and reduces vibration better than conventional aluminum handlebars.
- Bright 35W headlight is smoothly incorporated into the front number plate.
- Trim, low-draw LED taillight is neatly tucked under the lip of the rear fender.
- The full-function, dual (sport/standard) mode LCD dash is in a durable, ultra-compact housing.
 - o Sport mode simply shows timer, tripmeter, average speed and tire-diameter correction (to reduce information during spirited riding or competition).
 - o Standard mode also shows speed, time, two trip lengths and voltage.
 - o The instrument's integrated tire diameter calculator allows precise fine tuning for different tires to ensure accuracy of the speed and distance displays.
 - o Instruments includes a low fuel level warning light.
- Champion Yellow bodywork (including yellow fenders and white front number plate) with race team-inspired graphics package.
- Gripper seat, with projected cross-shaped patterns on its blue top surface, aids rider control.

Additional Features

- Six-month limited-warranty. Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).
- The RMX450Z is eligible for the Suzuki competition contingency program. See Suzuki industry leading contingency programs at www.SuzukiCycles.com/Racing.
- A variety of Genuine Suzuki Accessories for RMX450Z owners are available including a large selection of Suzuki logo apparel.
- For more details, please visit www.suzukicycles.com.

Specifications RMX450ZL9

E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length	2185 mm (86.0 in)
Overall width.....	840 mm (33.1 in)
Overall height	1265 mm (49.8 in)
Wheelbase	1485 mm (58.5 in)
Ground clearance	320 mm (12.6 in)
Seat height	950 mm (37.4 in)
Curb mass	123.5 kg (272 lbs)

ENGINE

Type	4-stroke, liquid-cooled, DOHC
Number of cylinders	1
Bore	96.0 mm (3.780 in)
Stroke.....	62.1 mm (2.445 in)
Displacement.....	449 cm ³ (27.4 cu. in)
Compression ratio.....	11.6 : 1
Fuel system	Fuel injection
Air cleaner	Polyurethane foam element
Starter system	Electric & kick
Lubrication system.....	Semi-dry sump
Idle speed.....	2000 ± 100 r/min

DRIVE TRAIN

Clutch	Wet multi-plate type
Transmission	5-speed constant mesh
Gearshift pattern.....	1-down, 4-up
Primary reduction ratio	2.708 (65/24)
Gear ratios, Low	2.153 (28/13)
2nd.....	1.611 (29/18)
3rd	1.250 (25/20)
4th.....	1.000 (19/19)
Top	0.826 (19/23)
Final reduction ratio	3.923 (51/13)
Drive chain	DID520MXV, 114 links

CHASSIS

Front suspension	Telescopic, coil spring, oil damped
Rear suspension.....	Link type, coil spring, oil damped
Front suspension stroke.....	310 mm (12.2 in)
Rear wheel travel.....	310 mm (12.2 in)
Caster	28°10'
Trail.....	122 mm (4.80 in)
Steering angle	45° (right & left)
Turning radius.....	2.30 m (7.5 ft)
Front brake	Disc brake
Rear brake.....	Disc brake
Front tire.....	80/100-21 51M, tube type
Rear tire	110/100-18 64M, tube type

Specifications RMX450ZL9

E-03: USA, E-33: California

ELECTRICAL

Ignition type	Electronic ignition (CDI)
Ignition timing	4° B.T.D.C. at 2000 r/min
Spark plug	NGK CR8EIB-10
Battery	12V 21.6kC (6Ah)/10HR
Generator	Three-phase A.C. generator
Fuse	15/15A
Headlight	12V 35W (H8)
Tail light	LED
Speedometer light	LED
Fuel level indicator light	12V 3.4W

CAPACITIES

Fuel tank	6.2 L (1.6/1.4 US/Imp gal)
Engine oil, oil change	1050 ml (1.1/0.9 US/Imp qt)
with filter change	1100 ml (1.2/1.0 US/Imp qt)
overhaul	1200 ml (1.3/1.1 US/Imp qt)
Coolant	1.20 L (1.3/1.1 US/Imp qt)

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Service Data RMX450ZL9

E-03: USA, E-33: California

Valve + Valve Guide

Unit: mm (in)

Item	Standard		Limit
Valve diam.	IN.	36.0 (1.42)	—
	EX.	31.0 (1.22)	—
Valve clearance (When cold)	IN.	0.09 – 0.16 (0.004 – 0.006)	—
	EX.	0.17 – 0.24 (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 stem deflection	IN. & EX.	—	0.25 (0.010)
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 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.	—	35.8 (1.41)
	EX.	—	35.2 (1.39)
Valve spring tension	IN.	146 – 168 N (14.9 – 17.1 kgf, 32.8 – 37.7 lbs) at length 30.9 mm (12.2 in)	—
	EX.	105 – 121 N (10.7 – 12.3 kgf, 23.6 – 27.2 lbs) at length 30.9 mm (12.2 in)	—

Camshaft + Cylinder Head

Unit: mm (in)

Item	Standard		Limit
Cam height	IN.	34.52 – 34.57 (1.359 – 1.361)	34.22 (1.347)
	EX.	34.28 – 34.33 (1.350 – 1.352)	33.98 (1.338)
Camshaft journal oil clearance	IN. & EX.	0.032 – 0.066 (0.001 – 0.002)	0.150 (0.0059)
Camshaft journal holder I.D.	IN. & EX.	22.012 – 22.025 (0.8667 – 0.8671)	—
Camshaft journal O.D.	IN. & EX.	21.959 – 21.980 (0.8645 – 0.8654)	—
Camshaft runout	—		0.10 (0.004)
Cam chain pin	14th pin		—
Cylinder head distortion	—		0.05 (0.002)

Cylinder + Piston + Piston Ring

Unit: mm (in)

Item	Standard		Limit
Compression pressure (Automatic decomp. actuated)	Approx. 400 kPa (4.0 kgf/cm ² , 57 psi) and more		—
Piston to cylinder clearance	0.035 – 0.045 (0.0014 – 0.0018)		0.120 (0.0047)
Cylinder bore	96.000 – 96.015 (3.7795 – 3.7801)		Nicks or Scratches
Piston diam.	95.960 – 95.975 (3.7779 – 3.7785) Measure at 16 mm (0.63 in) from the skirt end.		95.880 (3.7748)
Cylinder distortion	—		0.05 (0.002)
Piston ring free end gap	1st	Approx. 8.7 (0.34)	7.0 (0.28)
Piston ring end gap	1st	0.20 – 0.30 (0.008 – 0.012)	0.50 (0.020)
Piston ring to groove clearance	1st	—	0.180 (0.007)
Piston ring groove width	1st	0.78 – 0.80 (0.0307 – 0.0315)	—
		1.30 – 1.32 (0.0512 – 0.0520)	—
Piston ring thickness	Oil	2.01 – 2.03 (0.0791 – 0.0799)	—
	1st	0.71 – 0.76 (0.0279 – 0.0299)	—
		1.08 – 1.10 (0.0425 – 0.0433)	—
Piston pin bore	19.002 – 19.008 (0.7425 – 0.7433)		19.030 (0.7492)
Piston pin O.D.	18.995 – 19.000 (0.7478 – 0.7480)		18.980 (0.7472)

Conrod + Crankshaft

Unit: mm (in)

Item	Standard		Limit
Conrod small end I.D.	19.010 – 19.018 (0.7484 – 0.7487)		19.040 (0.7496)
Conrod deflection	—		3.0 (0.12)
Conrod big end side clearance	0.20 – 0.65 (0.008 – 0.026)		1.0 (0.04)
Conrod big end width	19.75 – 19.80 (0.778 – 0.780)		—
Crank web to web width	61.9 – 62.1 (2.437 – 2.445)		—
Crankshaft runout	—		0.08 (0.003)

Oil Pump

Item	Standard	Limit
Oil pressure (at 50 °C, 122 °F)	50 kPa (0.5 kgf/cm ² , 7.1 psi) at 4 000 r/min	—

Clutch

Unit: mm (in)

Item	Standard	Limit
Clutch lever clearance	2.0 – 3.0 (0.08 – 0.12)	—
Drive plate thickness (No. 1 & No. 2)	3.07 – 3.23 (0.121 – 0.127)	2.77 (0.109)
Drive plate claw width (No. 1 & No. 2)	13.85 – 13.95 (0.545 – 0.549)	13.05 (0.514)
Driven plate distortion	—	0.10 (0.004)
Clutch spring free length	45.22 (1.780)	49.4 (1.945)

Radiator + Engine Coolant

Unit: mm (in) Except ratio

Item	Standard	Limit	
ECT sensor resistance	20 °C (68 °F)	Approx. 2.58 kΩ	—
	50 °C (122 °F)	Approx. 0.77 kΩ	—
	80 °C (176 °F)	Approx. 0.28 kΩ	—
	110 °C (230 °F)	Approx. 0.12 kΩ	—
Radiator cap valve opening pressure	95 – 125 kPa (0.95 – 1.25 kgf/cm ² , 14 – 18 psi)	—	
Engine coolant type	Use an anti-freeze/coolant compatible with aluminum radiator.	—	
Engine coolant capacity	Reserve tank side	250 ml (0.3/0.2 US/Imp qt)	—
	Engine side	950 ml (1.0/0.8 US/Imp qt)	—

Transmission + Drive Chain

Unit: mm (in) Except ratio

Item	Standard	Limit	
Primary reduction ratio	2.708 (65/24)	—	
Final reduction ratio	3.923 (51/13)	—	
Gear ratios	Low	2.153 (28/13)	—
	2nd	1.611 (29/18)	—
	3rd	1.250 (25/20)	—
	4th	1.000 (19/19)	—
	Top	0.826 (19/23)	—
Gear shift fork to groove clearance	No. 1, 2, 3 0.1 – 0.3 (0.004 – 0.012)	0.5 (0.02)	
Gear shift fork groove width	No. 1, 2, 3 5.0 – 5.1 (0.197 – 0.201)	—	
Shift fork thickness	No. 1, 2, 3 4.8 – 4.9 (0.189 – 0.193)	—	
Drive chain	Type	DID 520MXV	—
	Links	114	—
Drive chain plate height	Inner	15.0 (0.59)	12.75 (0.502)
	Outer	12.8 (0.50)	11.20 (0.441)
Drive chain slack	40 – 50 (1.6 – 2.0)	—	

Injector + Fuel Pump + Fuel Pressure Regulator

Item	Specification	Note
Injector resistance	10.5 ± 0.53 Ω at 24 °C (75.2 °F)	
Fuel pump discharge amount	Approx. 240 ml (8.1/8.4 US/Imp oz) /10 sec.	
Fuel pressure regulator operating set pressure	Approx. 294 kPa (2.94 kgf/cm ² , 41.81 psi)	

FI Sensors

Item	Specification	Note
CKP sensor resistance	150 – 280 Ω	
CKP sensor peak voltage	5.0 V and more	
Crankshaft rotation signal sensor resistance	0.2 – 0.6 Ω	
Crankshaft rotation signal sensor peak voltage	3.0 V and more	
IAP sensor input voltage	4.5 – 5.5 V	
IAP sensor output voltage	0.89 – 1.17 V at idle speed	
TP sensor input voltage	4.5 – 5.5 V	
TP sensor output voltage	Closed	Approx. 0.6 V
	Opened	Approx. 1.89 V
ECT sensor input voltage	4.5 – 5.5 V	
ECT sensor output voltage	0.2 – 4.9 V	
ECT sensor resistance	Approx. 2.58 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	Approx. 2.58 kΩ at 20 °C (68 °F)	
TO sensor resistance	16.5 – 22.3 kΩ	
TO sensor voltage	Normal	0.4 – 1.4 V
	Leaning	3.7 – 4.4 V
GP switch voltage	0.6 V and more	When leaning 65°
Injector voltage	Battery voltage	From 1st to Top

Throttle Body

Item	Specification
Bore size	41 mm (1.61 in)
I.D. No.	02J0
Idle r/min	2 000 ± 100 r/min
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)
Hot starter lever clearance	2.0 – 3.0 mm (0.08 – 0.12 in)

Electrical

Unit: mm (in)

Item		Specification	Note
Ignition timing		4° B.T.D.C. at 2 000 r/min.	
Spark plug	Type	NGK: CR8EIB-10	
	Gap	0.9 – 1.0 (0.035 – 0.039)	
Spark performance		Over 8 (0.3) at 1 atm.	
CKP sensor resistance		150 – 280 Ω	R – G
Crankshaft rotation signal sensor resistance		0.2 – 0.6 Ω	B/R – R/W
Generator coil resistance		0.2 – 0.6 Ω	Y – Y
CKP sensor peak voltage		5.0 V and more	(+): R, (-): G
Crankshaft rotation signal sensor peak voltage		3.0 V and more	(+): B/R, (-): R/W
Ignition coil resistance	Primary	0.17 – 0.23 Ω	W/BI – B/W
	Secondary	5.04 – 7.56 kΩ	Plug cap – B/W
Ignition coil primary peak voltage		175 V and more	(+): B/W, (-): W/BI
Generator no-load voltage (When engine is cold)		60 V (AC) and more at 5 000 r/min	
Generator maximum output		Approx. 230 W at 5 000 r/min	
Regulated voltage		13.5 – 15.0 V at 5 000 r/min	
Engine stop switch resistance		Under 1 Ω	B/Y – B/W
Starter motor blush length	Standard	12.05 (0.47)	
	Limit	6.55 (0.26)	
Starter torque limiter slip torque	Standard	9 – 24 N·m (0.9 – 2.4 kgf-m, 6.5 – 17.5 lbf-ft)	
Starter relay resistance		3 – 5 Ω	
Battery	Type designation	YTZ7S	
	Capacity	12 V 21.6 kC (6 Ah)/10HR	
Fuse size	Main	15 A	
	Sub	15 A	

Wattage

Unit: W

Item	Standard
Headlight	35
Tail light	LED

Tire

Unit: mm (in)

Item	Standard	Limit
Cold inflation tire pressure	Front & Rear 100 kPa (1.0 kgf/cm ² , 14 psi)	
Tire size	Front	80/100-21 51M
	Rear	110/100-18 64M
Tire type	Front	DUNLOP SPORTS D742FA
	Rear	DUNLOP SPORTS D756
Tire tread depth (Recommend depth)	Front & Rear —	4.0 (0.16)

Brake + Wheel

Unit: mm (in)

Item	Standard		Limit
Brake lever adjuster length	11 – 15 (0.4 – 0.6)		—
Rear brake pedal height	0 – 10 (0 – 0.4)		—
Brake disc thickness	Front	3.0 ± 0.2 (0.118 – 0.008)	2.5 (0.10)
	Rear	4.0 ± 0.15 (0.157 – 0.006)	3.5 (0.14)
Brake disc distortion	Front & Rear	—	0.3 (0.012)
Master cylinder bore	Front	11.000 – 11.043 (0.4331 – 0.4348)	—
	Rear	11.000 – 11.043 (0.4331 – 0.4348)	—
Master cylinder piston diam.	Front	10.957 – 10.984 (0.4314 – 0.4324)	—
	Rear	10.957 – 10.984 (0.4314 – 0.4324)	—
Brake caliper cylinder bore	Front	27.000 – 27.050 (1.0630 – 1.0650)	—
	Rear	25.400 – 25.450 (1.0000 – 1.0020)	—
Brake caliper cylinder piston diam.	Front	26.918 – 26.968 (1.0598 – 1.0617)	—
	Rear	25.318 – 25.368 (0.9968 – 0.9987)	—
Brake fluid type	DOT 4		—
Wheel rim runout	Axial	—	2.0 (0.08)
	Rear	—	2.0 (0.08)
Wheel rim size	Front	21 x 1.60	—
	Rear	18 x 2.15	—
Wheel axle runout	Front	—	0.25 (0.010)
	Rear	—	0.25 (0.010)

Suspension

Unit: mm (in)

Item	Standard		Limit	Note
Front fork stroke	310 (12.2)		—	
Front fork inner tube O.D.	47 (18.5)		—	
Front fork spring free length	495 (19.48)		485 (19.09)	
Front fork damping force adjuster	Rebound	MAX – 8 clicks turn back	—	
	Compression	MAX – 8 clicks turn back	—	
Front fork air pressure	0 kPa (0 kgf/cm ² , 0 psi)		—	
Front fork spring rate	4.61 N/mm (0.47 kgf/mm)		—	
Rear shock absorber gas pressure	784 kPa (8.0 kgf/cm ² , 113.8 psi)		—	
Rear shock absorber spring set length	256.5 (10.10)		—	8.5 mm (0.34 in) compressed from spring free length
Rear shock absorber spring rate	53.9 N/mm (5.5 kgf/mm)		—	
Rear shock absorber damping force adjuster	Rebound	MAX – 13 Clicks turn back	—	
	Compression (High speed)	MAX – 2 turns back	—	
	Compression (Low speed)	MAX – 10 clicks turn back	—	
Rear wheel travel	310 (12.2)		—	
Swingarm pivot shaft runout	—		0.3 (0.01)	

Fuel + Oil

Item	Specification	Note
Fuel type	Use only unleaded gasoline of at least 87 pump octane (R/2 + M/2) or 91 octane or higher rated by the research method. Gasoline containing MTBE (Methyl Tertiary Butyl Ether), less than 10% ethanol, or less than 5% methanol with appropriate cosolvents and corrosion inhibitor is permissible.	E-03, 33
Fuel tank capacity	6.2 L (1.6/1.4 US/Imp gal)	
Engine oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA	
Engine oil capacity	Change	1 050 ml (1.1/0.9 US/Imp qt)
	Filter change	1 100 ml (1.2/1.0 US/Imp qt)
	Overhaul	1 200 ml (1.3/1.1 US/Imp qt)
Air cleaner element oil type	MOTUL Air Filter Oil or equivalent oil	
Front fork oil type	FORK OIL SS-19 or an equivalent fork oil	
Front fork oil capacity (each leg)	320 ml (10.8/11.3 US/Imp oz)	Outer tube oil quantity
	193 ml (6.5/6.8 US/Imp oz)	Damper rod oil quantity
Rear shock absorber oil type	SUZUKI REAR SUSPENSION OIL SS-25 or an equivalent suspension oil	
Rear shock absorber oil capacity	383 ml (13.0/13.5 US/Imp oz)	

Tightening Torque List

Engine

Item	N-m	kgf-m	lbf-ft
Cylinder head cover bolt	14	1.4	10.0
Spark plug	11	1.1	8.0
Cylinder head bolt	Initial	25	18.0
	Final	51	37.0
Cylinder head base bolt	10	1.0	7.0
Cylinder base bolt	10	1.0	7.0
Camshaft journal holder bolt (L45 & L45)	10	1.0	7.0
Oil gallery bolt (Journal holder)	10	1.0	7.0
Primary drive gear nut	90	9.0	65.0
Magneto rotor nut	100	10.0	72.5
Clutch sleeve hub nut	90	9.0	65.0
Clutch spring set bolt	10	1.0	7.0
Gearshift arm stopper	23	2.3	16.5
Gearshift cam driven gear pin	24	2.4	17.5
Pawl lifter screw	8.5	0.85	6.0
Bearing retainer screw	8.5	0.85	6.0
Cam chain tension adjuster mounting bolt	10	1.0	7.0
Cam chain tension adjuster cap bolt	23	2.3	16.5
Cam chain tensioner bolt	10	1.0	7.0
Cam chain guide retainer bolt	10	1.0	7.0
Engine oil drain plug	12	1.2	8.5
Intake pipe mounting screw	8.5	0.85	6.0
Engine oil level check bolt	5.5	0.55	4.0
Oil filter cap bolt	11	1.1	8.0
Oil gallery plug (Cylinder head)	10	1.0	7.0
Oil pump No. 1 bolt	5.5	0.55	4.0
Oil pump No. 2 bolt	11	1.1	8.0
Oil strainer cap	21	2.1	15.0
Crankcase bolt	11	1.1	8.0
Right crankcase cover bolt	11	1.1	8.0
Starter clutch bolt	13	1.3	9.5
Clutch cover bolt	11	1.1	8.0
TDC plug	14	1.4	10.0
Magneto cover bolt	11	1.1	8.0
Crankshaft hole plug	11	1.1	8.0
Generator stator bolt	5.5	0.55	4.0
Ignition coil mounting bolt	5.5	0.55	4.0
Condenser bracket bolt	10	1.0	7.0
Engine mounting bolt and nut (L125 & L120)	66	6.6	47.5
Engine mounting bolt (L43 & L40)	55	5.5	40.0
Engine mounting bracket nut (Front)	60	6.0	43.5
Upper engine mounting bracket bolt	40	4.0	29.0
Intake pipe mounting screw	8.5	0.85	6.0
Engine sprocket cover bolt	11	1.1	8.0
Kick starter guide bolt	10	1.0	7.0
Kick starter lever bolt	29	2.9	21.0
kick starter lever screw	10	1.0	7.0
Air cleaner heat guard mounting screw	1	0.1	0.7
Exhaust pipe bolt and nut	23	2.3	16.5
Muffler connector clamp bolt	19	1.9	13.5
Muffler mounting bolt (Front and Rear)	23	2.3	16.5
Exhaust pipe cover bolt	11	1.1	8.0
Muffler tail cover screw	10	1.0	7.0
Spark arrester mounting bolt	5.5	0.55	4.0
Starter motor mounting bolt	10	1.0	7.0
Starter motor lead wire nut	6	0.6	4.5

FI system and Intake Air System

Item	N·m	kgf·m	lbf·ft
Throttle cover screw	3	0.3	2.0
CKP sensor mounting bolt	5.5	0.55	4.0
IAP sensor mounting screw	1.5	0.15	1.0
IAT sensor mounting screw	1.3	0.13	0.95
TP sensor 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
Fuel pipe mounting screw	3.5	0.35	2.5
L-joint mounting screw	3.5	0.35	2.5
ECT sensor	12	1.2	8.5

Cooling System

Item	N·m	kgf·m	lbf·ft
Impeller	8	0.8	6.0
Water pump case bolt	11	1.1	8.0
Engine coolant drain plug	11	1.1	8.0
Radiator air bleeder bolt	6	0.6	4.5
Water hose clamp screw	1.5	0.15	1.0

Chassis

Item	N·m	kgf·m	lbf·ft
Handlebar clamp bolt	25	2.5	18.0
Handlebar holder nut	45	4.5	32.5
Front fork clamp bolt (Upper & Lower)	23	2.3	16.5
Steering stem head nut	100	10.0	72.5
Steering stem nut	45 N·m (4.5 kgf·m, 32.5 lbf·ft) then turn back 1/4 – 1/2		
Clutch lever pivot bolt	4	0.4	3.0
Clutch lever pivot bolt lock-nut	4	0.4	3.0
Front fork cap bolt	34	3.4	24.5
Lock-nut/Center bolt	22	2.2	16.0
Front fork center bolt	69	6.9	50.0
Front fork compression damper unit	30	3.0	21.5
Front fork air bleeder valve	1.3	0.13	1.0
Front fork protector bolt	4.9	0.49	3.5
Front brake master cylinder holder bolt	10	1.0	7.0
Rear brake master cylinder mounting bolt	10	1.0	7.0
Rear brake master cylinder rod lock-nut	6	0.6	4.5
Brake lever pivot bolt	6	0.6	4.5
Brake lever pivot bolt lock-nut	6	0.6	4.5
Brake pedal pivot bolt	29	2.9	21.0
Brake hose union bolt (Front and Rear)	23	2.3	16.5
Brake hose guide bolt (Front)	3	0.3	2.0
Brake caliper mounting bolt (Front)	25	2.5	18.0
Brake pad mounting pin (Front and Rear)	17	1.7	12.5
Front brake caliper axle bolt (Caliper)	25	2.5	18.0
Front brake caliper axle bolt (Bracket)	23	2.3	16.5
Rear brake caliper axle bolt (Caliper)	43	4.3	31.0
Rear brake caliper axle bolt (Bracket)	12	1.2	8.5
Brake caliper air bleeder valve (Front and Rear)	6	0.6	4.5
Brake disc bolt (Front)	11	1.1	8.0
Brake disc bolt (Rear)	25	2.5	18.0
Front axle nut	35	3.5	25.0
Front axle holder bolt	18	1.8	13.0
Rear axle nut	100	10.0	72.5
Rear sprocket nut	30	3.0	21.5
Chain roller bolt and nut	23	2.3	16.5
Spoke nipple	6	0.6	4.5
Front wheel rim lock	14	1.4	10.0

Item	N·m	kgf·m	lbf·ft
Rear wheel rim lock	14	1.4	10.0
Swingarm pivot nut (engine mounting)	70	7.0	50.5
Rear shock absorber mounting nut (Upper and Lower)	50	5.0	36.0
Rear shock absorber compression adjuster assembly	29	2.9	21.0
Rear cushion lever nut (Upper and Lower)	80	8.0	58.0
Rear cushion rod nut (Front and Rear)	80	8.0	58.0
Rear shock absorber spring adjuster lock-nut	44	4.4	32.0
Seat rail bolt/nut (Upper and Lower)	23	2.3	16.5
Footrest bracket bolt	40	4.0	29.0
Footrest bolt	35	3.5	25.5
Cable adjuster lock-nut (throttle, clutch and hot starter)	2.1	0.21	1.5
Speedometer bracket bolt	10	1.0	7.0
Speedometer mounting nut	4.5	0.45	3.5