Features & Specifications
2018 RMX450Z

RMX450ZL8

YU1: Champion Yellow No.2

New Features

- New bodywork color and graphics mimic the 2017 MX GP machine.
- New black and blue tone seat complements the new graphics package.

Key Features

- Fuel-injected engine is based on Suzuki's winning open-class motocrosser; the RM-Z450.
- 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 forks and piggyback-reservoir style rear shock.
- Competition-developed seat and slim bodywork creates a controllable, ergonomic riding position.
- Racing-inspired graphics and colors include fork clamps that are anodized black, complementing the gold fork leg finish.
- Black anodized Excel aluminum rims are ready to withstand rugged off-road conditions.
- Clean-burning 4-stroke engine easily achieves Environmental Protection Agency (EPA) emissions regulations (eligible for red-sticker registration in California).

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.
- 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.

Engine Features (continued)

- 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-Z450-derived trail-ready suspension uses high-performance SHOWA forks 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 instrument cluster 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 a yellow rear fender) with race-inspired graphics package.
- Gripper seat, with projected cross-shaped patterns on its blue top surface, aids rider control

Additional Features

- A variety of Genuine Suzuki Accessories for RMX450Z owners are available including a large selection of Suzuki logo apparel.
- See Suzuki'sindustry leading contingency programs at www.SuzukiCycles.com/Racing.
- The 6-month unlimited-mileage, limited warranty can be lengthened via the Suzuki Extended Protection program (SEP).
- For more details, please visit www.suzukicycles.com.

Specifications RMX450ZL8
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

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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

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)

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)	—
	Oil	2.01 – 2.03 (0.0791 – 0.0799)	—
Piston ring thickness	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	When leaning 65°
GP switch voltage	0.6 V and more		From 1st to Top
Injector voltage	Battery voltage		

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/Bl – B/W
		Secondary	5.04 – 7.56 kΩ	Plug cap – B/W
Ignition coil primary peak voltage		175 V and more		(+): B/W, (–): W/Bl
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	2.5	18.0
	Final	51	5.1	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
Speedmeter bracket bolt	10	1.0	7.0
Speedometer mounting nut	4.5	0.45	3.5