

# Features & Specifications

## 2017 KingQuad 500AXi Power Steering



LT-A500XPL7

YLG: Terra Green

### Introduction

- In 1983, Suzuki introduced the world's first 4-wheel ATV. Today, Suzuki ATVs are everywhere. From the most remote areas to the most everyday tasks, you'll find the KingQuad powering a rider onward. And every year, we continue to evolve our machines to meet the demands of our riders. Quicker response. Smoother power. Better fuel consumption. Across the board, our KingQuad lineup is a dominating group of ATVs.
- With a long list of technologically advanced features, the Suzuki KingQuad 500AXi Power Steering is equally at home on tough trails or helping you take on tough jobs. Its fuel-injected engine provides exceptional performance and features a twin-spark-plug cylinder head, multi-hole fuel injector and more, resulting in smooth performance throughout the powerband along with strong mid- to high-end performance.
- Advanced electric power steering system gives the 2017 KingQuad 500AXi lighter steering and even more responsive handling than ever.

### Engine Features

- The powerful 493cc, SOHC, single-cylinder, liquid-cooled, four-stroke engine produces a wide powerband with strong top-end power.
- Its cylinder is canted forward for a low center of gravity resulting in reduced engine height and lower seat height. The engine also features a counterbalancer shaft for smooth operation.
- The compact 4-valve cylinder head has large intake valves and straight intake ports for superb cylinder charging efficiency.
- A lightweight aluminum cylinder uses SCEM (Suzuki Composite Electrochemical Material) coating for excellent heat transfer and ring sealing resulting in superb combustion chamber efficiency.
- Advanced Suzuki Fuel Injection improves throttle response and fuel efficiency, while delivering power consistently across the full rev-range, and improves engine starting in all conditions.
- High capacity aluminum radiator with large diameter, thermostatically controlled cooling fan provides stable engine operating temperature.

## Transmission Features

- The Quadmatic™ CVT-type automatic transmission provides versatility and convenience with a fender-mounted gate-type shifter for high/low range selection. Its advanced engine-braking system minimizes free-wheeling with the throttle off and helps control the vehicle during steep descents.
- A compact torque-sensing limited-slip front differential offers potent traction plus light steering. A differential-lock system provides serious four-wheel-drive traction.
- Handlebar-mounted push-button controls permit easy selection between 2WD, 4WD and differential-lock 4WD. An override button on the left handlebar can be used to override the normal speed limiter when stuck in the mud.

## Chassis Features

- Stylish bodywork features high-clearance fenders that offer great protection for the rider from flying debris. Refined panels simplify maintenance needs, such as oil level checks.
- Independent double A-arm front suspension (6.7 inches of wheel travel) includes large diameter shock absorbers with 5-way spring preload adjustment.
- Fully independent, A-arm/I-beam rear suspension with 7.7 inches of wheel travel includes large diameter shock absorbers with 5-way spring preload adjustment and large diameter rear sway-bar.
- Dual hydraulic front disc brakes plus a sealed, multi-plate rear brake system. The rear brake's clutch-type design provides high durability, reduced unsprung weight and low-maintenance.
- High traction 25-inch CARLISLE tires are mounted on strong, yet lightweight, aluminum wheels.
- Suzuki's plush T-shaped seat delivers rider mobility during spirited or difficult terrain riding.
- Reduced effort from the Power Steering permits higher handlebars for increased rider comfort.
- Polyethylene skid plates provide protection with minimal resistance over rocks and rough terrain. Durable plastic guards protect the front and rear half shafts.



YT9: Flame Red

## Utility/Convenience Features

- Dual 35W headlights (with high and low settings) are part of the distinctive KINGQUAD grille appearance. Bright tail light help make the ATV visible in dark conditions.
- Standard tow hitch lets you take advantage of the ATV's strong towing capacity.
- Winch-ready mounts and wire conduit makes winch installation simple.
- Instrumentation includes LCD readouts for speedometer, odometer, twin tripmeter, hour meter, clock, fuel level, driving range and drive mode. LED indicators for high, low, neutral, reverse and 2WD/4WD and differential-locked 4WD. LED cautions for fuel injection and engine temperature.
- High-output, three-phase charging system feeds an 18-amp maintenance-free battery for abundant power for easy starting and accessory use. A sealed 12V accessory outlet is standard.
- The large 4.6 gallon (17.5 L) fuel tank is positioned for a low center-of-gravity. It includes a vacuum-operated petcock and a ratchet-style filler cap (which prevents over tightening so it can be easily unscrewed for refilling).
- A large 2.8 liter water resistant front storage compartment includes an easy access screw-on cap.
- The rugged steel-tube cargo racks have wrinkle paint finish for durability and scratch resistance.
- Full floorboards with integrated raised footpegs provide protection.

## Additional Features

- A variety of Suzuki Genuine Accessories are available, including winches, windshield, front and rear bumpers, snow plow, aluminum skid pans, rack extensions, utility box and more.
- 12-month limited warranty
- For more details, please visit [www.suzukicycles.com](http://www.suzukicycles.com).

# Specifications LT-A500XPL7

## E-03: USA, E-33: California

### Dimensions and curb mass

Item	Specification	Remark
Overall length	2 185 mm (86.0 in)	
Overall width	1 210 mm (47.6 in)	
Overall height	1 285 mm (50.6 in)	
Wheelbase	1 285 mm (50.6 in)	
Front track	940 mm (37.0 in)	
Rear track	920 mm (36.2 in)	
Ground clearance	260 mm (10.2 in)	
Seat height	920 mm (36.2 in)	
Curb mass	300 kg (661 lbs)	

### Engine

Item	Specification	Remark
Type	Four-stroke, liquid-cooled, OHC	
Number of cylinders	1	
Bore	87.5 mm (3.445 in)	
Stroke	82.0 mm (3.228 in)	
Displacement	493 cm <sup>3</sup> (30.1 cu.in)	
Compression ratio	9.9 : 1	
Fuel system	Fuel injection	
Air cleaner	Paper element and Polyurethane form element	
Starter system	Electric	
Lubrication system	Wet sump	
Idle speed	1 500 ± 100 r/min	

### Drive train

Item	Specification	Remark
Clutch	Wet shoe, automatic, centrifugal type	
Transmission	CVT (V-belt)	
Transfer	2 speed forward with reverse	
Gearshift pattern	Transmission	Automatic
	Transfer	L-H-N-R (Hand operated)
Automatic transmission ratio	Variable change (2.902 – 0.779)	
Secondary reduction ratio	2.603 (37/18 x 19/15)	
Final reduction ratio (Front and Rear)	3.600 (36/10)	
Transfer gear ratio	Low	2.562 (41/16)
	High	1.240 (31/25)
	Reverse	2.000 (32/16)
Drive system	Shaft drive	

# Specifications LT-A500XPL7

## E-03: USA, E-33: California

### Chassis

Item	Specification	Remark
Front suspension	Independent, double wishbone, coil spring, oil damped	
Rear suspension	Independent, double wishbone, coil spring, oil damped	
Front wheel travel	170 mm (6.7 in)	
Rear wheel travel	195 mm (7.7 in)	
Caster	3.7°	
Trail	18.4 mm (0.72 in)	
Toe-out	5 mm (0.20 in)	
Camber	-1.3°	
Steering angle	46° (right and left)	
Turning radius	3.1 m (10.2 ft)	
Front brake	Disc brake, twin	
Rear brake	Sealed oil-bathed multi-disc	
Front tire size	AT25 x 8-12 ☆ ☆ , tubeless	
Rear tire size	AT25 x 10-12 ☆ ☆ , tubeless	

### Electrical

Item	Specification	Remark
Ignition type	Electronic ignition (Transistorized)	
Ignition timing	6° B.T.D.C. at 1 500 r/min	
Spark plug	NGK LMAR6A-9	
Battery	12 V 64.8 kC (18 Ah)/10 HR	
Generator	Three-phase A.C. generator	
EPS fuse	40 A	
Fuse	30/10/10/10/15/15/10 A	
Headlight	12 V 35/35 W (HS1) x 2	
Brake light/Tail light	12 V 21/5 W	
Speedometer light	LED	
Coolant temperature/FI indicator light	LED	
Neutral indicator light	LED	
High beam indicator light	LED	
Reverse indicator light	LED	
Diff-lock indicator light	LED	
EPS indicator light	LED	

### Capacities

Item	Specification	Remark
Fuel tank	17.5 L (4.6/3.8 US/lmp gal)	
Engine oil	Oil change	2 500 ml (2.6/2.2 US/lmp qt)
	With filter change	2 700 ml (2.9/2.4 US/lmp qt)
	Overhaul	3 200 ml (3.4/2.8 US/lmp qt)
Differential gear oil	460 ml (15.6/16.2 US/lmp oz)	
Final gear oil	770 ml (26.0/27.1 US/lmp oz)	
Coolant	2.5 L (2.6/2.2 US/lmp qt)	

# Service Data LT-A500XPL7

## E-03: USA, E-33: California

### Valve + Valve Guide

Unit: mm (in)

Item	Standard		Limit
	IN.	EX.	
Valve diam.	IN.	30.6 (1.20)	—
	EX.	27.0 (1.06)	—
Valve clearance (When cold)	IN.	0.05 – 0.10 (0.002 – 0.004)	—
	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.	5.000 – 5.012 (0.1969 – 0.1973)	—
Valve stem O.D.	IN.	4.975 – 4.990 (0.1959 – 0.1965)	—
	EX.	4.955 – 4.970 (0.1951 – 0.1957)	—
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.	—	2.3 (0.09)
Valve seat width	IN. & EX.	0.9 – 1.1 (0.035 – 0.043)	—
Valve head radial runout	IN. & EX.	—	0.03 (0.001)
Valve spring free length	IN. & EX.	—	38.8 (1.53)
Valve spring tension	IN. & EX.	182 – 210 N (18.6 – 21.4 kgf, 41.0 – 47.2 lbs) at length 31.5 mm (1.24 in)	—

### Camshaft + Cylinder Head

Unit: mm (in)

Item	Standard		Limit
	IN.	EX.	
Cam height	IN.	33.45 – 33.50 (1.317 – 1.319)	33.15 (1.305)
	EX.	33.47 – 33.52 (1.318 – 1.320)	33.17 (1.306)
Camshaft journal oil clearance	Camshaft end side	0.028 – 0.059 (0.0011 – 0.0023)	0.150 (0.0059)
	Other side	0.032 – 0.066 (0.0013 – 0.0026)	
Camshaft journal holder I.D.	Camshaft end side	17.512 – 17.525 (0.6894 – 0.6900)	—
	Other side	22.012 – 22.025 (0.8666 – 0.8671)	
Camshaft journal O.D.	Camshaft end side	17.466 – 17.484 (0.6876 – 0.6883)	—
	Other side	21.959 – 21.980 (0.8645 – 0.8654)	
Camshaft runout		—	0.10 (0.004)
Rocket arm I.D.	IN. & EX.	12.000 – 12.018 (0.4724 – 0.4731)	
Rocket arm shaft O.D.	IN. & EX.	11.973 – 11.984 (0.4714 – 0.4718)	
Cylinder head distortion		—	0.05 (0.002)
Cylinder head cover distortion		—	0.05 (0.002)

**Cylinder + Piston + Piston Ring**

Unit: mm (in)

Item	Standard			Limit
Compression pressure (Automatic-decomp. actuated)	Approx. 1 000 kPa (10.0 kgf/cm <sup>2</sup> , 142 psi)			—
Piston-to-cylinder clearance	0.030 – 0.040 (0.0012 – 0.0016)			0.120 (0.0047)
Cylinder bore	87.500 – 87.515 (3.4449 – 3.4455)			Nicks or Scratches
Piston diam.	87.465 – 87.480 (3.4435 – 3.4441) Measure at 15 mm (0.6 in) from the skirt end.			87.380 (3.4402)
Cylinder distortion	—			0.05 (0.002)
Piston ring free end gap	1st	Approx. 6.2 (0.24)		4.9 (0.19)
	2nd	2R	Approx. 12.0 (0.47)	9.6 (0.38)
Piston ring end gap	1st	0.08 – 0.20 (0.003 – 0.008)		0.50 (0.020)
	2nd	2R	0.10 – 0.25 (0.004 – 0.010)	0.50 (0.020)
Piston ring-to-groove clearance	1st	—		0.180 (0.0071)
	2nd	—		0.150 (0.0059)
Piston ring groove width	1st	0.78 – 0.80 (0.0307 – 0.0315)		—
		1.30 – 1.32 (0.051 – 0.052)		—
	2nd	1.01 – 1.03 (0.040 – 0.041)		—
		Oil	2.51 – 2.53 (0.099 – 0.100)	
Piston ring thickness	1st	0.71 – 0.76 (0.028 – 0.030)		—
		1.08 – 1.10 (0.0425 – 0.0433)		—
	2nd	2R	0.97 – 0.99 (0.038 – 0.039)	—
Piston pin bore I.D.	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**

Unit: mm (in)

Item	Standard			Limit
Conrod small end I.D.	20.006 – 20.014 (0.7876 – 0.7880)			20.040 (0.7890)
Conrod deflection	—			3.0 (0.12)
Conrod big end side clearance	0.10 – 0.65 (0.004 – 0.026)			1.0 (0.04)
Conrod big end width	24.95 – 25.00 (0.982 – 0.984)			—
Crank web to web width	70.9 – 71.1 (2.79 – 2.80)			—
Crankshaft runout	—			0.08 (0.003)

**Oil Pump**

Item	Standard			Limit
Oil pressure (at 60 °C, 140 °F)	80 – 120 kPa (0.8 – 1.2 kgf/cm <sup>2</sup> , 11 – 17 psi) at 3 000 r/min			—

**Clutch**

Unit: mm (in)

Item	Standard			Limit
Clutch wheel I.D.	140.0 – 140.2 (5.512 – 5.520)			140.5 (5.53)
Clutch shoe	—			No groove at any part
Clutch engagement r/min.	1 700 – 2 200 r/min			—
Clutch lock-up r/min.	3 700 – 4 300 r/min			—

## Drive Train

Unit: mm (in) Except ratio

Item		Standard	Limit
Automatic transmission ratio		Variable change (2.902 – 0.779)	—
Secondary reduction ratio		2.603 (37/18 x 19/15)	—
Final reduction ratio	Front	3.600 (36/10)	—
	Rear	3.600 (36/10)	—
Transfer gear ratio	Low	2.562 (41/16)	—
	High	1.240 (31/25)	—
	Reverse	2.000 (32/16)	—
Drive V-belt width		31.1 (1.22)	30.1 (1.18)
Movable driven face spring free length		200 (7.87)	190 (7.48)
Shift fork to groove clearance		0.10 – 0.30 (0.0040 – 0.0120)	0.50 (0.020)
Shift fork groove width	Reverse	5.50 – 5.60 (0.217 – 0.220)	—
	High	5.50 – 5.60 (0.217 – 0.220)	—
Shift fork thickness	Reverse	5.30 – 5.40 (0.209 – 0.213)	—
	High	5.30 – 5.40 (0.209 – 0.213)	—
Rear output shaft bevel gear backlash		0.03 – 0.15 (0.001 – 0.006)	—
Front drive (differential) gear backlash		0.05 – 0.20 (0.002 – 0.008)	—
Final gear backlash	Without gear cover specification	0.02 – 0.06 (0.0008 – 0.0024)	—
	Gear cover assembled specification	0.08 – 0.15 (0.0031 – 0.0059)	—
Front differential gear oil type		Hypoid gear oil SAE 90, API grade GL-5 or SAE 75 W-90	—
Final gear oil type		Mobil fluid 424 (or equivalent gear oil)	—
Front differential gear oil capacity		460 ml (15.6/16.2 US/Imp oz)	—
Final gear oil capacity		770 ml (26.0/27.1 US/Imp oz)	—

## Thermostat + Radiator + Fan + Coolant

Item	Standard/Specification		Note
Thermostat valve opening temperature	80.5 – 83.5 °C (177 – 182 °F)		—
Thermostat valve lift	8 mm (0.31 in) and over at 95 °C (203 °F)		—
Radiator cap valve opening pressure	110 – 140 kPa (1.1 – 1.4 kgf/cm <sup>2</sup> , 15.6 – 19.9 psi)		—
Cooling fan operating temperature	OFF → ON	Approx. 93 °C (199 °F)	—
	ON → OFF	Approx. 87 °C (189 °F)	
Engine coolant type	Use an antifreeze/coolant compatible with aluminum radiator, mixed with distilled water only.		—
Engine coolant capacity	Reservoir	250 ml (0.26/0.22 US/Imp qt)	—
	Engine	2 200 ml (2.32/1.94 US/Imp qt)	—

## Injector + Fuel Pump + Fuel Pressure Regulator

Item	Specification	Note
Injector resistance	11 – 13 Ω at 20 °C (68 °F)	
Fuel pump discharge amount	55.5 ml (1.88/1.95 US/Imp qt) and more/10 sec.	
Fuel pressure regulator operating set pressure	Approx. 294 kPa (2.9 kgf/cm <sup>2</sup> , 41 psi)	

## FI Sensors

Item	Specification		Note
CKP sensor resistance	170 – 250 $\Omega$		
CKP sensor peak voltage	5.0 V and more		When cranking
IAP sensor input voltage	4.5 – 5.5 V		
IAP sensor output voltage	0.78 – 3.35 V at idle speed		
TP sensor input voltage	4.5 – 5.5 V		
TP sensor output voltage	Closed	0.93 – 1.31 V	
	Opened	3.64 – 4.82 V	
IAT sensor input voltage	4.5 – 5.5 V		
IAT sensor output voltage	1.88 – 3.06 V at 20 °C (68 °F)		
IAT sensor resistance	20 °C (68 °F)	2.22 – 3.22 k $\Omega$	
ECT sensor input voltage	4.5 – 5.5 V		
ECT sensor output voltage	0.15 – 4.85 V		
ECT sensor resistance	20 °C (68 °F)	Approx. 2.45 k $\Omega$	
TO sensor resistance	19 – 20 k $\Omega$		
TO sensor voltage	Normal	0.4 – 1.4 V	
	Leaning	3.7 – 4.4 V	When leaning 65°
ISC valve resistance	Approx. 31 $\Omega$ at 20 °C (68 °F)		
Injector voltage	Battery voltage		
Ignition coil primary peak voltage	150 V and more		When cranking
PAIR control solenoid valve resistance	20 – 24 $\Omega$ at 20 – 30 °C (68 – 86 °F)		
Vehicle speed sensor input voltage	Battery voltage		

## Throttle Body

Item	Standard/Specification	Note
Bore size	37 mm	
I.D. No.	31H1	
Idle r/min	1 500 $\pm$ 100 r/min	
Throttle cable play	3 – 5 mm (0.1 – 0.2 in)	

## Electrical

Unit: mm (in)

Item		Standard/Specification		Note
Spark plug	Type Gap	NGK: LMAR6A-9		
		0.8 – 0.9 (0.031 – 0.035)		
Spark performance		Over 8 (0.3) at 1 atm.		
Ignition coil resistance	Primary	1 – 5 $\Omega$		Terminal – Terminal
	Secondary	25 – 40 k $\Omega$		Plug cap – Plug cap
Ignition coil primary peak voltage		150 V and more		When cranking
Generator coil resistance		0.1 – 1.0 $\Omega$		
Generator Max. output		Approx. 400 W at 5 000 r/min		
Generator no-load voltage (When engine is cold)		70 V (AC) and more at 5 000 r/min		
Regulated voltage		13.5 – 15.5 V at 5 000 r/min		
Starter motor brush length	Standard	10 (0.39)		
	Limit	6.5 (0.26)		
Starter relay resistance		3 – 5 $\Omega$		
Battery	Type designation	YTX20CH-BS		
	Capacity	12 V 64.8 kC (18 Ah)/10 HR		
Fuse size	Headlight	HI	10 A	
		LO	10 A	
	Power source		10 A	
	Ignition		15 A	
	Fuel		10 A	
	Fan		15 A	
Main		30 A		

Fuse size	EPS	40 A	
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## Wattage

Unit: W

Item	Standard/Specification
Headlight	12 V 35/35 (HS1) x 2
Brake light/Tail light	12 V 21/5
Speedometer light	LED
High beam indicator light	LED
Neutral indicator light	LED
Coolant temperature/FI indicator light	LED
Reverse indicator light	LED
Diff-lock indicator light	LED
EPS indicator light (LT-A500XP/PZ)	LED

## Brake + Wheel

Unit: mm (in)

Item	Standard/Specification	Limit
Rear brake pedal height	12.5 – 22.5 (0.5 – 0.9)	—
Rear brake pedal free travel	20 – 30 (0.8 – 1.2)	—
Front brake disc thickness	3.3 – 3.7 (0.13 – 0.15)	3.0 (0.12)
Front brake disc runout	—	0.30 (0.012)
Front master cylinder bore/Piston diameter	Approx. 12.7 (0.50)	—
Front brake caliper cylinder bore/Piston diameter	Approx. 33.96 (1.337)	—
Rear brake lever play	6 – 8 (0.2 – 0.3)	—
Rear brake outer distance	26.0 – 27.0 (1.02 – 1.06)	—
Brake side plate spring free length	21.3 (0.84)	20.2 (0.80)
Brake fluid type	DOT 4	—
Steering angle	46 ° (right & left)	—
Turning radius	3.1 m (10.2 ft)	—
Toe-out (With 75 kg, 165 lbs)	5 ± 4 (0.20 ± 0.16)	—
Camber	-1.3°	—
Caster	3.7°	—

## Tire

Unit: mm (in)

Item		Standard	Limit
Cold inflation tire pressure (Solo riding)	Front	35 kPa (0.35 kgf/cm <sup>2</sup> , 5.1 psi)	—
	Rear	30 kPa (0.30 kgf/cm <sup>2</sup> , 4.4 psi)	—
Tire size	Front	AT 25 x 8-12 ☆ ☆ , tubeless	—
	Rear	AT 25 x 10-12 ☆ ☆ , tubeless	—
Tire tread depth	Front	—	4.0 (0.16)
	Rear	—	4.0 (0.16)

## Suspension

Item	Standard	Limit
Front shock absorber spring adjuster	2/5 position	—
Rear shock absorber spring adjuster	2/5 position	—

## 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.	
Fuel tank capacity	17.5 L (4.6/3.8 US/Imp gal)	
Engine oil type	SAE 10 W-40, API SF/SG or SH/SJ with JASO MA	
Engine oil capacity	Change	2 500 ml (2.6/2.2 US/Imp qt)
	Filter change	2 700 ml (2.9/2.4 US/Imp qt)
	Overhaul	3 200 ml (3.4/2.8 US/Imp qt)

## Tightening Torque List

### Engine

Item	N·m	kgf-m	lbf-ft
Spark plug	11	1.1	8.0
Air cleaner box mounting bolt	4.5	0.45	3.0
Cylinder head cover bolt	10	1.0	7.0
Rocket arm shaft bolt	28	2.8	20.0
Intake pipe bolt	9	0.9	6.5
Cylinder head bolt (M8)	25	2.5	18.0
Cylinder head bolt (M10)	Initial	25	18.0
	Final	37	27.0
Cylinder head base nut	25	2.5	18.0
Camshaft sprocket bolt	15	1.5	11.0
Cam chain tensioner bolt	13	1.3	9.5
Cam chain tension adjuster mounting bolt	10	1.0	7.0
Cam chain tension adjuster cap bolt	8	0.8	6.0
Crankcase bolt (M6)	10	1.0	7.0
Crankcase bolt (M8)	26	2.6	19.0
TDC plug	23	2.3	16.5
Valve clearance adjuster lock-nut	10	1.0	7.0
Valve clearance inspection cap bolt	10	1.0	7.0
Clutch shoe nut	150	15.0	108.5
Movable drive face bolt	110	11.0	79.5
Movable driven face bolt	110	11.0	79.5
Movable driven face ring nut	110	11.0	79.5
Clutch outer cover bolt	8	0.8	6.0
Clutch inner cover bolt	9	0.9	6.5
Generator rotor nut	140	14.0	101.5
Generator stator set bolt	11	1.1	8.0
Speed sensor bolt	10	1.0	7.0
Starter clutch bolt	26	2.6	19.0
Left crankshaft spacer nut	38	3.8	27.5
Exhaust pipe nut	25	2.5	18.0
Muffler connecting bolt	25	2.5	18.0
Muffler mounting bolt	25	2.5	18.0
Muffler end cover nut	11	1.1	8.0
Muffler cover bolt	10	1.0	7.0
Engine oil drain plug	21	2.1	15.0
Engine coolant drain plug	12.5	1.25	9.0
Drive bevel gear nut	100	10.0	72.5
Engine mounting nut	60	6.0	43.5
Engine mounting damper stopper bolt	23	2.3	16.5
Rear output shaft nut	100	10.0	72.5
Crank balancer drive gear nut	150	15.0	108.5
Crank balancer driven gear bolt	50	5.0	36.0
Starter motor mounting bolt	10	1.0	7.0
Starter motor lead wire connecting nut	6	0.6	4.5
Starter motor housing bolt	3.5	0.35	2.0
Oil gallery plug (M8)	18	1.8	13.0
Oil gallery plug (M12)	21	2.1	15.0
PAIR reed valve cover bolt (If equipped)	10	1.0	7.0

## Drive Train

Item	N·m	kgf-m	lbf-ft
2WD/4WD/diff-lock actuator mounting bolt	10	1.0	7.0
Front drive (differential) gear case cover bolt	12	1.2	8.5
Front drive (differential) gear case mounting nut	50	5.0	36.0
Front differential gear oil level plug	8	0.8	6.0
Front differential gear oil filler plug	35	3.5	25.5
Front differential gear oil drain plug	32	3.2	23.0
Front propeller shaft boot clamp screw	1.3	0.13	0.94
Final drive gear nut	100	10.0	72.5
Rear drive bearing stopper	100	10.0	72.5
Final gear case bolt (M8)	26	2.6	19.0
Final gear case bolt (M10)	55	5.5	40.0
Final gear case mounting nut	75	7.5	54.0
Final gear case mounting bolt	75	7.5	54.0
Rear propeller shaft boot clamp screw	2	0.2	1.5
Final gear oil drain plug	23	2.3	16.5
Rear propeller shaft coupling nut	100	10.0	72.5
Rear output shaft nut	100	10.0	72.5
Rear output shaft driven gear nut	100	10.0	72.5

## FI System, Intake System and Fuel System

Item	N·m	kgf-m	lbf-ft
CKP sensor mounting bolt	6	0.6	4.5
Generator lead wire clamp bolt	6	0.6	4.5
Fuel delivery pipe mounting screw	3.5	0.35	2.5
ECT sensor	18	1.8	13.0
ISC valve mounting screw	2	0.2	1.5
Air cleaner outlet tube clamp screw	1.5	0.15	1.0
Intake pipe clamp screw	1.5	0.15	1.0
PAIR control solenoid valve bracket bolt (If equipped)	10	1.0	7.0

## Cooling System

Item	N·m	kgf-m	lbf-ft
Water pump cover screw	5.5	0.55	4.0
Water pump mounting bolt	10	1.0	7.0
Cooling fan thermo-switch (P-17, 24)	18	1.8	13.0
Thermostat case bolt	23	2.3	16.5
Cooling fan mounting bolt	8.4	0.84	6.0
Water hose clamp screw	1.5	0.15	1.0
Water bypass union	12	1.2	8.5
Water pump drain bolt	13	1.3	9.5

## Chassis

Item	N-m	kgf-m	lbf-ft
Handlebar upper clamp bolt	26	2.6	19.0
Handlebar holder nut	60	6.0	43.5
Rear brake lever holder clamp bolt	10	1.0	7.5
Throttle lever case clamp bolt	4	0.4	3.0
Throttle lever case screw	2	0.2	1.5
EPS body assembly mounting bolt (LT-A500XP/PZ)	26	2.6	19.0
EPS body assembly mounting nut (LT-A500XP/PZ)	28	2.8	20.0
Steering shaft upper nut (LT-A500XP/PZ)	120	12.0	87.0
Steering shaft bolt (LT-A500XP/PZ)	26	2.6	19.0
Steering shaft holder bolt (LT-A500X/Z)	23	2.3	16.5
Steering shaft lower nut	162	16.2	117.0
EPS control unit mounting nut (LT-A500XP/PZ)	12	1.2	8.5
Front suspension arm pivot nut (Upper)	60	6.0	43.5
Front suspension arm pivot nut (Lower)	65	6.5	47.0
Steering knuckle end nut (Upper and Lower)	29	2.9	21.0
Tie-rod end nut	29	2.9	21.0
Tie-rod lock-nut (LT-A500XP/PZ)	29	2.9	21.0
Tie-rod lock-nut (LT-A500X/Z)	45	4.5	32.5
Front shock absorber mounting bolt (Upper)	55	5.5	40.0
Front shock absorber mounting nut (Lower)	60	6.0	43.5
Front hub nut	110	11.0	79.5
Rear hub nut	121	12.1	87.5
Wheel set nut (Front and Rear)	60	6.0	43.5
Front brake hose union bolt	23	2.3	16.5
Front brake air bleeder valve	6.0	0.6	4.3
Front brake caliper mounting bolt	26	2.6	19.0
Caliper holder pin	18	1.8	13.0
Caliper holder slide pin	23	2.3	16.5
Front brake pad mounting pin	18	1.8	13.0
Brake pipe flare nut	16	1.6	11.5
Front brake disc bolt	23	2.3	16.5
Brake master cylinder clamp bolt	10	1.0	7.0
Footrest mounting bolt (M8)	26	2.6	19.0
Footrest mounting bolt (M10)	55	5.5	40.0
Rear stabilizer joint nut	60	6.0	43.5
Rear shock absorber mounting nut (Upper and Lower)	60	6.0	43.5
Rear suspension arm pivot nut (Upper and Lower)	60	6.0	43.5
Rear knuckle end nut (Upper and Lower)	60	6.0	43.5
Rear brake cam lever nut	11	1.1	8.0
Rear brake case bolt	26	2.6	19.0
Brake lever pivot bolt (Front and Rear)	6	0.6	4.5
Brake lever pivot bolt lock-nut	6	0.6	4.5
Rear brake pedal pivot bolt	11	1.1	8.0
Trailer towing bolt	60	6.0	43.5
Gearshift gate cover mounting bolt	10	1.0	7.0