



ATV  
2012 Model: LT-A750XP/CL2  
Date: February 2011

MSRP \$9,249



### Key Features

1. 722cm<sup>3</sup> liquid-cooled DOHC 4-valve fuel-injected engine tuned to deliver a mighty low-to-mid range torque along with a powerful high-rpm output.
2. Compact and lightweight electric power steering positioned high on the vehicle to help avoid water and debris, delivers lighter steering in a variety of conditions to help reduce rider fatigue. (LT-A750XP/XPZ only)
3. Fuel injection improves throttle response and fuel efficiency, while delivering power consistently and improving starting.
4. The rubber-mounted engine uses two balancer shafts to keep the powerful ride smooth.
5. Air filter has both paper (for superior filtration) and foam (easily cleaned and re-used) elements for better durability and less maintenance.
6. Efficient and functional fully automatic QuadMatic Continuously Variable Transmission (CVT), using a durable V-belt and centrifugal clutch.
7. An advanced engine-braking system helps the transmission control speed on descents and when pulling a load.

8. Torque-sensing front differential with three modes – 2WD, 4WD or differential-locked 4WD – easily selected with a handlebar-mounted button.
9. Fully independent suspension system with adjustable shock absorbers.
10. Shock absorbers at all four corners are adjustable for five different preload settings and can be easily adjusted out on the trail.
11. Front dual hydraulic disc brakes and rear sealed oil-bathed multi-disc braking system deliver strong and consistent stopping performance.
12. Gate-style drive mode selector lever lets the rider easily and securely select between low and high range, or the neutral or reverse settings.
13. Suzuki's exclusive T-shaped seat, designed for all-day comfort and easier body-weight transition.
14. Fuel tank positioned below the seat helps keep the machine's weight center low. The tank's ratcheting gas cap is easy to tighten.
15. A handy storage compartment is mounted on the right-side front fender.
16. Handlebar-mounted auxiliary headlight gives focused lighting in the direction of intended travel, and can be switched off independently.
17. LCD instrumentation includes speedometer, odometer, twin tripmeters, clock, hour meter, gear indicator, fuel gauge, and drive mode readouts.

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Realtree Hardwoods HD Enhanced (YVA)

**SPECIFICATIONS****MODEL: LT-A750XP/CL2****DIMENSIONS AND CURB MASS**

Overall length.....	2115 mm (83.3 in).....	P-28, 33
Overall width.....	1210 mm (47.6 in).....	P-28, 33
Overall height.....	1285 mm (50.6 in)	
Wheelbase.....	1285 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.....	305 kg (672 lbs).....	P-28, 33

**ENGINE**

Type.....	4-stroke, liquid-cooled, DOHC
Number of cylinders.....	1
Bore.....	104.0 mm (4.094 in)
Stroke.....	85.0 mm (3.346 in)
Displacement.....	722 cm <sup>3</sup> (44.1 cu. in)
Compression ratio.....	10.0 : 1
Fuel system.....	Fuel injection
Air cleaner.....	Paper element
Starter system.....	Electric
Lubrication system.....	Wet sump
Idle speed.....	1300 ± 100 r/min

**DRIVE TRAIN**

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.....	2.763 - 0.78 (Variable)
Secondary reduction ratio.....	2.158 (40/21 × 17/15)
Final reduction ratio (Front & Rear).....	3.600 (36/10)
Transfer gear ratio, Low.....	2.562 (41/16)
High.....	1.240 (31/25)
Reverse.....	1.882 (32/17)
Drive system.....	Shaft drive

**CHASSIS**

Front suspension.....	Independent, double wishbone, coil spring, oil damped
Rear suspension.....	Independent, double wishbone, coil spring, oil damped
Front wheel travel.....	170.5 mm (6.7 in)
Rear wheel travel.....	195 mm (7.7 in)
Caster.....	3.3°
Trail.....	16.7 mm (0.66 in)
Toe-out.....	5 mm (0.20 in)
Camber.....	-1.3°
Steering angle.....	46° (right & left)
Turning radius.....	3.1 m (10.2 ft)
Front brake.....	Disc brake, twin
Rear brake.....	Sealed oil-bathed multi-disc
Front tire.....	AT25 × 8-12, tubeless
Rear tire.....	AT25 × 10-12, tubeless

**ELECTRICAL**

Ignition type.....	Electronic ignition (CDI)
Ignition timing.....	7° B.T.D.C. at 1300 r/min
Spark plug.....	NGK CR6E or DENSO U20ESR-N
Battery.....	12V 64.8 kC (18 Ah)/10 HR
Generator.....	Three-phase A.C. generator
Main fuse.....	30A
EPS fuse.....	40A
Fuse.....	10/10/10/10/15/15A
Headlight.....	12V 35/35W x 2
AUX lamp.....	12V 35/35W
Brake light/Taillight.....	12V 21/5W
Speedometer light.....	LED
Neutral indicator light.....	LED
Coolant temperature/FI indicator light.....	LED
Reverse indicator light.....	LED
Diff-lock indicator light.....	LED
EPS indicator light.....	LED

**CAPACITIES**

Fuel tank .....	17.5 L (4.6/3.8 US/Imp gal)
Engine oil , oil change.....	2300 ml (2.4/2.0 US/Imp qt)
with filter change.....	2500 ml (2.6/2.2 US/Imp qt)
overhaul.....	3000 ml (3.2/2.6 US/Imp qt)
Differential gear oil.....	500 ml (16.9/17.6 US/Imp oz)
Final gear oil.....	770 ml (26.0/27.1 US/Imp oz)
Coolant.....	2.5 L (2.6/2.2 US/Imp qt)

## SERVICE DATA

### Valve + Valve Guide

Unit: mm (in)

Item		Standard	Limit
Valve diam.	IN.	36.0 (1.42)	—
	EX.	33.0 (1.30)	—
Tappet clearance (When cold)	IN.	0.10 – 0.20 (0.004 – 0.008)	—
	EX.	0.20 – 0.30 (0.008 – 0.012)	—
Valve guide to valve stem clearance	IN.	0.010 – 0.037 (0.0004 – 0.0015)	—
	EX.	0.030 – 0.057 (0.0012 – 0.0022)	—
Valve guide I.D.	IN. & EX.	5.500 – 5.512 (0.2165 – 0.2170)	—
Valve stem O.D.	IN.	5.475 – 5.490 (0.2156 – 0.2161)	—
	EX.	5.455 – 5.470 (0.2148 – 0.2154)	—
Valve stem deflection	IN. & EX.	—	0.35 (0.014)
Valve stem runout	IN. & EX.	—	0.05 (0.002)
Valve head thickness	IN. & EX.	—	0.5 (0.02)
Valve 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.	—	46.1 (1.81)
Valve spring tension	IN. & EX.	182 – 210 N (18.6 – 21.4 kgf, 41.0 – 47.2 lbs) at length 36.35 mm (1.43 in)	—

### Camshaft + Cylinder Head

Unit: mm (in)

Item		Standard	Limit
Cam height	IN.	36.330 – 36.380 (1.4303 – 1.4323)	36.030 (1.4185)
	EX.	35.300 – 35.350 (1.3898 – 1.3917)	35.000 (1.3780)
Camshaft journal oil clearance	IN. & EX.	0.019 – 0.053 (0.0007 – 0.0021)	0.150 (0.0059)
Camshaft journal holder I.D.	IN. & EX.	22.012 – 22.025 (0.8666 – 0.8671)	—
Camshaft journal O.D.	IN. & EX.	21.972 – 21.993 (0.8650 – 0.8659)	—
Camshaft runout	IN. & EX.	—	0.10 (0.004)
Cylinder head distortion		—	0.05 (0.002)
Cam drive idle gear/sprocket thrust clearance		0.15 – 0.27 (0.006 – 0.011)	—

### 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	104.000 – 104.015 (4.0945 – 4.0951)			Nicks or Scratches
Piston diam.	103.965 – 103.980 (4.0931 – 4.0937) Measure at 15 mm (0.6 in) from the skirt end.			103.880 (4.0898)
Cylinder distortion	—			0.05 (0.002)
Piston ring free end gap	1st	R	Approx. 13.1 (0.52)	10.5 (0.41)
	2nd	RN	Approx. 14.6 (0.57)	11.7 (0.46)
Piston ring end gap	1st	R	0.10 – 0.25 (0.004 – 0.010)	0.50 (0.020)
	2nd	RN	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	0.83 – 0.85 (0.0327 – 0.0335)		—
		1.30 – 1.32 (0.0512 – 0.0520)		
	2nd	1.01 – 1.03 (0.0398 – 0.0406)		—
	Oil	2.01 – 2.03 (0.0791 – 0.0799)		—
Piston ring thickness	1st	0.76 – 0.81 (0.0299 – 0.0319)		—
		1.08 – 1.10 (0.0425 – 0.0433)		—
	2nd	0.97 – 0.99 (0.0382 – 0.0390)		—
Piston pin bore I.D.	23.002 – 23.008 (0.9056 – 0.9058)			23.030 (0.9067)
Piston pin O.D.	22.992 – 23.000 (0.9052 – 0.9055)			22.980 (0.9047)

### Conrod + Crankshaft

Unit: mm (in)

Item	Standard			Limit
Conrod small end I.D.	23.006 – 23.014 (0.9057 – 0.9061)			23.040 (0.9071)
Conrod deflection	—			3.0 (0.12)
Conrod big end side clearance	0.10 – 0.75 (0.004 – 0.030)			1.0 (0.04)
Conrod big end width	24.95 – 25.00 (0.982 – 0.984)			—
Crank web to web width	72.9 – 73.1 (2.87 – 2.88)			—
Crankshaft runout	—			0.08 (0.003)

### Oil Pump

Item	Standard			Limit
Oil pressure (at 60 °C, 140 °F)	140 – 180 kPa (1.4 – 1.8 kgf/cm <sup>2</sup> , 20 – 26 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	1 500 – 2 000 r/min	—
Clutch lock-up r/min	3 500 – 4 000 r/min	—

## Drive Train

Unit: mm (in) Except ratio

Item	Standard	Limit
Automatic transmission ratio	Variable change (2.763 – 0.780)	—
Secondary reduction ratio	2.158 (40/21 x 17/15)	—
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	1.882 (32/17)
Drive V-belt width	34.3 (1.35)	33.3 (1.31)
Movable driven face spring free length	160.0 (6.30)	152.0 (6.00)
Shift fork to groove clearance	Low	0.10 – 0.30 (0.0040 – 0.0120)
	High	0.10 – 0.30 (0.0040 – 0.0120)
	Reverse	0.10 – 0.30 (0.0040 – 0.0120)
Shift fork groove width	Low	5.50 – 5.60 (0.217 – 0.220)
	High	5.50 – 5.60 (0.217 – 0.220)
	Reverse	5.50 – 5.60 (0.217 – 0.220)
Shift fork thickness	Low	5.30 – 5.40 (0.209 – 0.213)
	High	5.30 – 5.40 (0.209 – 0.213)
	Reverse	5.30 – 5.40 (0.209 – 0.213)
Front/Rear output shaft bevel gear backlash	0.03 – 0.15 (0.001 – 0.006)	—
Front drive (differential) gear backlash	0.05 – 0.10 (0.002 – 0.004)	—
Rear drive (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	—
Rear drive gear oil type	Mobil 424 or equivalent gear oil	—
Front differential gear oil capacity	500 ml (16.9/17.6 US/lmp oz)	—
Final gear oil capacity	770 ml (26.0/27.1 US/lmp oz)	—

### Thermostat + Radiator + Fan + Coolant

Item	Standard		Note
Thermostat valve opening temperature	Approx. 82 °C (180 °F)		
Thermostat valve lift	8 mm (0.31 in) and over at 95 °C (203 °F)		
ECT sensor resistance	20 °C (68 °F)	Approx. 2.45 kΩ	
	50 °C (122 °F)	Approx. 0.811 kΩ	
	80 °C (176 °F)	Approx. 0.318 kΩ	
	110 °C (230 °F)	Approx. 0.142 kΩ	
Radiator cap valve opening pressure	110 – 140 kPa (1.1 – 1.4 kgf/cm <sup>2</sup> , 15.6 – 19.9 psi)		
Cooling fan thermo-switch 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, at the ratio of 50:50.		
Engine coolant	Reservoir	Approx. 250 ml (0.26/0.22 US/Imp qt)	
	Engine	Approx. 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 + Secondary Throttle Valve Actuator

Item	Specification		Note
CKP sensor resistance	150 – 250 Ω		
CKP sensor peak voltage	5.0 V and more		When cranking
IAP sensor input voltage	4.5 – 5.5 V		
IAP sensor output voltage	Approx. 2.63 V at idle speed		
TP sensor input voltage	4.5 – 5.5 V		
TP sensor output voltage	Closed	Approx. 1.1 V	
	Opened	Approx. 4.3 V	
ECT sensor input voltage	4.5 – 5.5 V		
ECT sensor output voltage	0.15 – 4.85 V		
ECT sensor resistance	Approx. 2.45 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. 1.60 kΩ at 20 °C (68 °F)		
TO sensor resistance	19 – 20 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		
Ignition coil primary peak voltage	80 V and more		When cranking
ISC valve resistance	Approx. 31 kΩ at 20 °C (68 °F)		



## Throttle Body

Item	Specification
Bore size	42 mm
I.D. No.	31G0
Idle r/min	1 300 ± 100 r/min
Fast idle r/min	1 500 – 2 000 r/min (When cold engine)
Throttle cable play	3 – 5 mm (0.12 – 0.20 in)

## Electrical

Unit: mm (in)

Item	Specification		Note	
Spark plug	Type	NGK: CR6E DENSO: U20ESR-N		
	Gap	0.7 – 0.8 (0.028 – 0.031)		
Spark performance	Over 8 (0.3) at 1 atm.			
CKP sensor resistance	150 – 250 Ω			
CKP sensor peak voltage	5.0 V and more			
Ignition coil resistance	Primary	0.1 – 0.6 Ω	Terminal – Ground	
	Secondary	12 – 19 kΩ	Plug cap – Terminal	
Ignition coil primary peak voltage	80 V and more		When cranking	
Generator coil resistance	0.4 – 1.0 Ω			
Generator maximum output	Approx. 400 W at 5 000 r/min			
Generator no-load voltage (When engine is cold)	75 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	12.0 (0.47)		
	Limit	6.5 (0.26)		
Starter torque limiter slip torque	Standard	41.2 – 62.8 N·m (4.2 – 6.4 kgf-m, 14.5 – 32.5 lbf-ft)		
Starter relay resistance	3 – 5 Ω			
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		
EPS	40 A			

**Wattage**

Unit: W

Item		Specification	
		P-24, 28, 33	P-17
Headlight	HI	35 x 2	←
	LO	35 x 2	←
Auxiliary headlight		35/35	←
Brake/Tail light		21/5	←
Reversing light		—	21
Speedometer light		LED	←
High beam indicator light		—	LED
Neutral indicator light		LED	←
FI indicator light/Engine coolant temp. indicator light		LED	←
Reverse indicator light		LED	←
Differential lock indicator light		LED	←
EPS indicator light		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	—	3.0 (0.20)
Front brake disc runout	—	0.30 (0.012)
Front master cylinder bore	12.700 – 12.743 (0.5000 – 0.5017)	—
Front master cylinder piston diam.	12.657 – 12.684 (0.4983 – 0.4994)	—
Front brake caliper cylinder bore	33.960 – 34.010 (1.3370 – 1.3390)	—
Front brake caliper piston diam.	33.878 – 33.928 (1.3338 – 1.3357)	—
Rear brake lever play	6 – 8 (0.2 – 0.3)	—
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 mm (0.20 ± 0.16)	—
Camber	-1.3°	—
Caster	3.3°	—

**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	AT25 x 8-12 ☆☆, tubeless	—
	Rear	AT25 x 10-12 ☆☆, tubeless	—
Tire tread depth	Front	—	4.0 (0.16)
	Rear	—	4.0 (0.16)

**Suspension**

Unit: mm (in)

Item	Standard	Limit
Front shock absorber spring adjustor	2/5 position	—
Rear shock absorber spring adjustor	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.	P-28, 33
	Gasoline used should be graded 91 octane or higher. An unleaded gasoline type is recommended.	Others
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	2 300 ml (2.4/2.0 US/Imp qt)
	Filter change	2 500 ml (2.6/2.2 US/Imp qt)
	Overhaul	3 000 ml (3.2/2.6 US/Imp qt)

## Tightening Torque List

### Engine

Item		N-m	kgf-m	lbf-ft
Spark plug		11	1.1	8.0
Cylinder head cover bolt	Initial	10	1.0	7.0
	Final	14	1.4	10.5
Cam drive idle gear/sprocket shaft		41	4.1	29.5
Intake pipe bolt		9	0.9	6.5
Cylinder head bolt (M6)		10	1.0	7.0
Cylinder head bolt (L200)	Initial	25	2.5	18.0
	Final	37	3.7	27.0
Cylinder head bolt (L: 70)		10	1.0	7.0
Cylinder head bolt (L: 100)		10	1.0	7.0
Camshaft journal holder bolt		10	1.0	7.0
Cam chain tension adjuster bolt		10	1.0	7.0
Cam chain tension adjuster cap bolt		7	0.7	5.0
Crankcase bolt (M6)		10	1.0	7.0
Crankcase bolt (M8)		26	2.6	19.0
Valve timing inspection plug		23	2.3	16.5
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
V-belt outer cover bolt		8	0.8	6.0
V-belt inner cover bolt		9	0.9	6.5
Generator rotor nut		160	16.0	115.5
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
Exhaust pipe nut		23	2.3	16.5
Muffler connecting bolt		23	2.3	16.5
Muffler mounting bolt		23	2.3	16.5
Engine oil drain plug		21	2.1	15.0
Engine coolant drain plug		13	1.3	9.5
Drive bevel gear nut		100	10.0	72.5
Front output shaft 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 mounting nut		6	0.6	4.5
Starter motor housing bolt		5	0.5	3.5
Main oil gallery plug		18	1.8	13.0
Air cleaner box mounting bolt		4.5	0.45	3.0
Left crankshaft spacer nut		38	3.8	27.5
Oil gallery plug (Cylinder head)		10	1.0	7.0

**Drive Train**

Item	N-m	kgf-m	lbf-ft
4WD/Diff-lock actuator mounting bolt	22	2.2	16.0
Front drive (Differential) gear case bolt	22	2.2	16.0
Front drive (Differential) gear case mounting nut	50	5.0	36.0
Front drive (Differential) gear oil level plug	8.5	0.85	6.0
Front drive (Differential) gear oil filler plug	35	3.5	25.5
Front drive (Differential) gear oil drain plug	32	3.2	23.0
Final drive gear nut	100	10.0	72.5
Final drive gear 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 mounting nut	65	6.5	47.0
Final gear mounting bolt	65	6.5	47.0
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
Front output shaft bolt	10	1.0	7.0
Rear output shaft nut	100	10.0	72.5
Rear output shaft drive bevel gear nut	100	10.0	72.5
Rear output shaft driven gear nut	100	10.0	72.5
Front propeller shaft boot clamp screw	1.3	0.13	1.0
Rear propeller shaft boot clamp screw	2	0.2	1.5

**FI System, Intake Air System and Fuel System**

Item	N-m	kgf-m	lbf-ft
CKP sensor mounting bolt	6	0.6	4.5
CKP sensor bracket bolt	6	0.6	4.5
Fuel delivery pipe mounting screw	5	0.5	3.5
Fuel pump retainer	35	3.5	25.5
ECT sensor	18	1.8	13.0
ISC valve mounting screw	2	0.2	1.5
TP sensor mounting screw	2	0.2	1.5

**Cooling System**

Item	N-m	kgf-m	lbf-ft
Water pump cover screw	6	0.6	4.5
Water pump mounting bolt	10	1.0	7.0
Cooling fan thermo-switch	17	1.7	12.5
Thermostat cover bolt	23	2.3	16.5
Cooling fan assembly mounting bolt	8.5	0.85	6.0
Water bypass union	12	1.2	8.5

## Chassis

Item	N-m	kgf-m	lbf-ft
Handlebar clamp bolt	26	2.6	19.0
Handlebar holder nut	60	6.0	43.5
Rear brake lever holder clamp bolt	10	1.0	7.0
Throttle lever case bolt	2	0.2	1.5
Steering shaft upper nut	120	12.0	87.0
Steering shaft bolt	26	2.6	19.0
EPS control unit mounting nut	12	1.2	8.5
EPS body assembly mounting bolt	26	2.6	19.0
EPS body assembly mounting nut	28	2.8	20.0
Steering shaft lower nut	162	16.2	117.0
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	29	2.9	21.0
Front shock absorber mounting bolt (Upper)	55	5.5	40.0
Front shock absorber mounting nut (Lower)	60	6.0	43.5
Front wheel hub nut	110	11.0	79.5
Rear wheel 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	0.6	4.5
Front brake pad mounting pin	17	1.7	12.5
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
Brake pipe flare nut	16	1.6	11.5
Front brake disc mounting bolt	23	2.3	16.5
Brake master cylinder mounting 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
Rear brake pedal shaft nut	60	6.0	43.5
Rear brake pedal screw	4.5	0.45	3.0
Trailer towing bolt	60	6.0	43.5
Brake lever pivot bolt and nut	6	0.6	4.5
Brake lever pivot bolt lock-nut	6	0.6	4.5
Front propeller shaft boot clamp screw	1.3	0.13	1.0
Rear propeller shaft boot clamp screw	2	0.2	1.5