Features & Specifications 2018 KingQuad 400ASi Special Edition



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.
- Whether you're working hard or getting away from it all, the 2018 Suzuki KingQuad 400ASi helps you every step of the way. The fully automatic Quadmatic transmission has two and four-wheel drive modes handle rough trail conditions while completing even the most demanding chores. Along with exceptional performance across the powerband, its high-performance iridium spark plug and Pulsed-secondary AIR-injection (PAIR) system provide outstanding fuel efficiency, and clean emissions.
- For 2018, the KingQuad 400ASi is offered in a Special Edition finish of Solid Matte Sword Black.

Engine Features

- The KingQuad 400ASi Special's fuel-injected 376cc four-stroke, four-valve engine produces efficient power and driveablity.
- Suzuki's class-leading fuel injection smooth's power output, especially in the mid-to-high range, and provides excellent cold starting. The system uses 3-D maps for optimum ignition, creating responsive yet environmentally compliant performance.
- Suzuki Advanced Cooling System (SACS) uses an oil cooler and thermostat-controlled cooling fan to shed engine heat during hard work or cargo hauling.
- Push-button electric starting has a start-in-gear function allowing starting without shifting to neutral (as conditions permit).
- The Engine Control Unit (ECU) has slip control logic, which adjusts fuel injector duration and timing to improve drivability and grip in loose/slippery conditions.
- Highly efficient iridium spark plug contributes to better combustion, cleaner emissions and longer plug life. Engine starting under low temperature is also improved.
- Pulsed-secondary AIR-injection (PAIR) system and catalyst-equipped exhaust system help the ATV meet emission standards while maintaining a high level of performance.

Transmission Features

- The Quadmatic[™] transmission is a fully automatic, CVT (Continuously Variable Transmission) with selectable high-low sub-transmission and reverse for maximum traction and fuel efficiency.
- Automotive gate-type gearshift lever lets you conveniently choose high- or low-range, neutral or reverse.
- Select two- or four-wheel drive with the flip of a handlebar-mounted lever. The shaft drive system is reliable and durable, and is nearly maintenance-free.
- Torque-sensing limited-slip front differential provides maximum traction and light steering when in 4WD mode.
- An advanced engine-braking system minimizes free-wheeling with the throttle off to help control the ATV during steep descents.
- The ECU has a Reverse Mode that monitors vehicle speed so higher engine RPM can be used when getting out of mud or loose soil in reverse mode.

Chassis Features

- Sporty bodywork features sharply angled, high-clearance fenders.
- Suzuki's plush T-shaped seat delivers rider mobility during sport or difficult terrain riding. Overall length is under 82 inches (208 cm) so the KingQuad fits into a 6.5-foot truck bed for easy transportation.
- Independent front A-arm suspension offers smooth performance and remarkable ground clearance with 6.7 inches (170.1 mm) of wheel travel.
- A swingarm rear-suspension with 6.7 inches (170.1 mm) of wheel travel and twin shock absorbers provides agile handling and plush ride.
- Dual front hydraulic disc brakes feature calipers with large 34mm pistons and wide brake-pad surface area for increased stopping power and outstanding durability.
- Large, 25-inch CARLISLE tires with aggressive tread offers consistent traction in wet conditions, yet has a quiet, smooth ride on hard-packed trails.
- Lightweight and strong plastic skid plates, sturdy to withstand trail pounding yet slippery to let obstacles slide below.

Utility/Convenience Features

- Dual 35W headlights (with high and low settings) are part of the distinctive KINGQUAD grille appearance. Bright tail light helps make the ATV visible in dark conditions.
- Heavy-duty front and rear cargo racks let you take advantage of the ATV's superb load capabilities. Wrinkle paint finish on the racks and front bumper is durable and scratch resistance.
- LCD instrumentation includes speedometer, odometer, tripmeter, hour meter, clock, fuel gauge and indicators for reverse, neutral, oil and FI.
- Automotive-style DC power outlet on front fender.
- Winch-ready mounts and wire conduit makes winch installation simple.
- Large 4.2-gallon (15.9 L) fuel tank provides outstanding riding range.
- 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.

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- 12-month limited warranty
- For more details, please visit <u>www.suzukicycles.com</u>.

Specifications LT-A400FZL8 E-03: USA, E-33: California

DIMENSIONS AND CURB MASS

Overall length	2060 mm (81.1 in)
Overall width	1145 mm (45.1 in)
Overall height	1220 mm (48.0 in)
Wheelbase	
Front track	880 mm (34.6 in)
Rear track	900 mm (35.4 in)
Ground clearance	250 mm (9.8 in)
Seat height	840 mm (33.1 in)
Curb mass	

ENGINE

Type Number of cylinders	
Bore	82.0 mm (3.228 in)
Stroke	
Displacement	376cm ³ (22.9 cu. in)
Compression ratio	
Fuel system	Fuel injection
Air cleaner	Polyurethane foam element
Starter system	
Lubrication system	Wet sump
Idle speed	1500 ± 100 r/min

DRIVE TRAIN

Clutch Transmission Transfer	. Automatic variable ratio (V-belt)
Gearshift pattern, Transmission	
Transfer	. L-H-N-R (Hand operated)
Primary reduction ratio (Automatic drive)	. 2.938 - 0.813 (Variable change)
Secondary reduction ratio	. 2.730 (42/19×21/17)
Final reduction ratio (Front & Rear)	. 3.600 (36/10)
Transfer gear ratio, Low	. 2.500 (40/16)
High	. 1.375 (33/24)
Reverse	. 2.125 (34/16)
Drive system	. Shaft drive



Specifications LT-A400FZL8 E-03: USA, E-33: California

CHASSIS

Front suspension Rear suspension Front wheel travel Rear wheel travel Caster Trail Toe-in Camber Steering angle Turning radius Front brake Rear brake Front tire	Swingarm type, coil spring, oil damped 170 mm (6.7 in) 170 mm (6.7 in) 3° 14mm (0.55 in) 10 mm (0.39 in) 0.3° 47° (right & left) 3.1 m (10.2 ft) Disc brake, twin Drum brake AT25 \times 8-12 \pm \pm , tubeless
Rear tire	
Front tire	AT25 × 8-12☆☆, tubeless

ELECTRICAL

Ignition type Ignition timing Spark plug	8° B.T.D.C. at 1500 r/min NGK CR7EIA-9 or DENSO IU22D
Battery	12V 43.2 kC (12 Ah)/10 HR
Generator	Three-phase A.C. generator
Main fuse	30A
Fuse	10/10/10/10/10/10A
Headlight	12V 35/35W (HS1) × 2
Brake light/Taillight	12V 21/5W
Speedometer light	LED
Oil temperature indicator light	LED
Neutral indicator light	LED
Reverse indicator light	LED
FI indicator light	
High beam indicator light	

CAPACITIES

Fuel tank, including reserve	16.0 L (4.2/3.5US/Imp gal)
Engine oil, oil change	2800 ml (3.0/2.5 US/Imp qt)
with filter change	3100 ml (3.3/2.7 US/Imp qt)
overhaul	3400 ml (3.6/3.0 US/Imp qt)
Differential gear oil	300 ml (10.1/10.6 US/Imp oz)
Final gear oil	350 ml (11.8/12.3 US/Imp oz)



Service Data LT-A400FZL8 E-03: USA, E-33: California

Valve + Valve Guide

Unit: mm (in)

ltem		Standard	Limit
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.	0.22 - 0.27 (0.009 - 0.011)	—
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)	—
valve stelli O.D.	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.		40.9 (1.61)
Valve spring tension	IN. & EX.	Approx. 196 N (20.0 kgf, 44.1 lbf) at length 31.5 mm (1.24 in)	

Camshaft + Cylinder Head

Unit: mm (in)

ltem		Standard	Limit
Cam height	IN.	33.200 – 33.250 (1.3071 – 1.3091)	32.900 (1.2953)
Can neight	EX.	33.180 – 33.230 (1.3063 – 1.3083)	32.880 (1.2945)
Camshaft journal oil clearance	ø 22	0.032 - 0.066 (0.0013 - 0.0026)	0.150 (0.0059)
	ø 17.5	0.028 – 0.059 (0.0011 – 0.0023)	0.150 (0.0059)
Camshaft journal holder I.D.	ø 22	22.012 – 22.025 (0.8666 – 0.8671)	—
	ø 17.5	17.512 – 17.525 (0.6894 – 0.6900)	—
Camshaft journal O.D.	ø 22	21.959 – 21.980 (0.8645 – 0.8654)	—
Carrisnan journal O.D.	ø 17.5	17.466 – 17.484 (0.6876 – 0.6883)	—
Camshaft runout		—	0.10 (0.004)
Rocker arm I.D.	IN. & EX.	12.000 - 12.018 (0.4724 - 0.4731)	—
Rocker arm shaft O.D.	IN. & EX.	11.973 – 11.984 (0.4714 – 0.4718)	—
Cylinder head distortion		<u> </u>	0.05 (0.002)
Cylinder head cover distortion		—	0.05 (0.002)

Cylinder + Piston + Piston Ring Unit: mm (in)

ltem			Limit	
Compression pressure (Automatic-decomp. actuated)		Ар	-	
Piston to cylinder clearance			0.065 - 0.075 (0.0026 - 0.0030)	0.120 (0.0047)
Cylinder bore			82.000 - 82.015 (3.2283 - 3.2289)	82.070 (3.2311)
Piston diam.			81.930 – 81.945 (3.2256 – 3.2262) sure at 15 mm (0.6 in) from the skirt end.	81.880 (3.2236)
Cylinder distortion			—	0.05 (0.002)
Picton ring free and gap	1st	R	Approx. 8.9 (0.35)	7.1 (0.28)
Piston ring free end gap	2nd	R	Approx. 10.4 (0.41)	8.3 (0.33)
Piston ring end gap	1:	st	0.15 – 0.27 (0.006 – 0.011)	0.50 (0.020)
Fision ning end gap	2r	nd	0.15 – 0.27 (0.006 – 0.011)	0.50 (0.020)
Piston ring to groove clearance	1:	st	—	0.180 (0.0071)
	2r	nd		0.150 (0.0059)
	1:	st	1.01 – 1.03 (0.0398 – 0.0406)	—
Piston ring groove width	2r	nd	1.01 – 1.03 (0.0398 – 0.0406)	—
	0	il	2.01 – 2.03 (0.0791 – 0.0799)	—
Piston ring thickness	1:	st	0.970 - 0.990 (0.0382 - 0.0390)	—
	2nd		0.970 - 0.990 (0.0382 - 0.0390)	—
Piston pin bore			20.002 – 20.008 (0.7875 – 0.7877)	20.030 (0.7886)
Piston pin O.D.		19.996 – 20.000 (0.7872 – 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 - 0.7879)	20.040 (0.7890)
Conrod deflection	—	3.0 (0.12)
Conrod big end side clearance	0.00 – 0.55 (0.000 – 0.022)	1.0 (0.04)
Conrod big end width	21.95 – 22.00 (0.864 – 0.866)	—
Conrod web to web width	59.9 – 60.1 (2.36 – 2.37)	—
Crankshaft runout	<u> </u>	0.080 (0.0031)

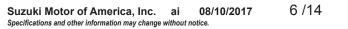
Oil Pump

ltem	Standard	Limit
	Above 110 kPa (1.1 kgf/cm², 16 psi)	
Oil pressure (at 60 °C, 140 °F)	Below 150 kPa (1.5 kgf/cm ² , 21 psi)	—
	at 3000 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 thickness	_	No groove at any part
Clutch engagement r/min	1700 – 2200 r/min	—
Clutch lock-up r/min	3300 – 3900 r/min	—



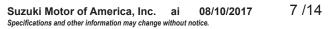
Drive Train

Unit: mm (in) Except ratio

Item		Standard	Limit
Automatic transmission ratio		Variable change (2.938 – 0.813)	_
Secondary reduction ratio		2.730 (42/19 x 21/17)	_
Final reduction ratio	Front	3.600 (36/10)	_
	Rear	3.600 (36/10)	_
	Low	2.500 (40/16)	_
Transfer gear ratio	High	1.375 (33/24)	_
	Reverse	2.125 (34/16)	_
Drive belt width		28.4 (1.12)	27.4 (1.08)
Movable driven face spring free length		215.0 (8.46)	204.3 (80.4)
Shift fork to groove cl	earance	0.10 - 0.30 (0.004 - 0.012)	0.50 (0.020)
Shift fork groove	High/Low	5.50 - 5.60 (0.217 - 0.220)	_
width	Reverse	5.50 – 5.60 (0.217 – 0.220)	_
Shift fork thickness	High/Low	5.30 - 5.40 (0.209 - 0.213)	_
STILL IOLK LINCKHESS	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)	-
Final gear backlash		0.08 – 0.13 (0.0031 – 0.0051)	—

Engine Oil Temp. Indicator Light Operating Temperature + Cooling Fan Operating Temperature

Item	Standard/Specification		Limit
Engine oil temp. indicator light	$ OFF \rightarrow ON $	Approx. 160 °C (320 °F)	—
operating temperature	$ON \rightarrow OFF$	Approx. 150 °C (302 °F)	—
Cooling fan operating temperature	$OFF \to ON$	Approx. 120 °C (248 °F)	—
	$ON \rightarrow OFF$	Approx. 110 °C (230 °F)	_

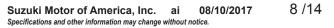


Injector + Fuel Pump + Fuel Pressure Regulator

Item	Standard/Specification	Limit
Injector resistance	10 – 11 Ω at 24 °C (72.5 °F)	
Injector voltage	Battery voltage	
Fuel pump discharge amount	84 ml (2.8/3.0 US/Imp qt) and more/10 sec.	
Fuel pressure regulator operating	Approx. 294 kPa (2.94 kgf/cm ² , 42 psi)	
set pressure	Approx. 294 KFa (2.94 Kgi/GIII-, 42 psi)	

FI Sensors

ltem	Standard/Specification		Limit
CKP sensor resistance	130 – 250 Ω		
CKP sensor peak voltage	4.0	0 V and more	When cranking
IAP sensor input voltage		4.5 – 5.5 V	
IAP sensor output voltage	Approx.	1.7 V at idle speed	
TP sensor input voltage		4.5 – 5.5 V	
TP sensor output voltage	Closed	Approx. 0.6 V	
	Opened	Approx. 3.8 V	
IAT sensor input voltage		4.5 – 5.5 V	
IAT sensor output voltage	А	pprox. 2.0 V	
IAT sensor resistance	20 °C (68 °F) Approx. 2.45 kΩ		
Engine oil temperature sensor input	·	4.5 – 5.5 V	
voltage		4.5 – 5.5 V	
Engine oil temperature sensor	(0.1 – 4.85 V	
output voltage	l l	J.1 = 4.65 V	
Engine oil temperature sensor	20 °C (68 °F)	Approx. 13 kΩ	
resistance	20 0 (00 1)	Approx. 13 K22	
TO sensor resistance		15 – 25 kΩ	
TO sensor voltage	Normal	0.4 – 1.4 V	
	Leaning	3.7 – 4.4 V	When leaning 65°
PAIR control solenoid valve	20 24 O at	20 – 30 °C (68 – 86 °F)	
resistance	20 – 24 M al	20 - 30 C (00 - 00 P)	
Speed sensor input voltage	Battery voltage		



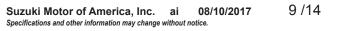
Throttle Body

Item	Standard/Specification
Bore size	32 mm (1.26 in)
I.D. No.	27H1
Idle r/min	1500 ± 100 r/min
Idle air screw	1/2 – 3 turns back
Throttle cable play	3.0 – 5.0 mm (0.12 – 0.20 in)
Starter cable play	0.5 – 1.0 mm (0.02 – 0.04 in)

Electrical

Unit: mm (in)

ltem			Specification	Note
		Туре	NGK: CR7EIA-9 DENSO: IU22D	
Spark plug		Gap	0.8 – 0.9 (0.031 – 0.035)	
Spark perform	nance	Over 8 (0.3) at 1 atm.		
Ignition coil re	sistance	Primary Secondary	3.1 – 4.14 Ω 25.6 – 34.6 kΩ	(+) Terminal – (–) Terminal Plug cap – (+) Terminal
Generator coi	l resistance	,	0.36 – 0.54 Ω	B – B
Generator no- (When the eng	gine is cold)	125 V (/	AC) and more at 5000 r/min	
Generator Ma	x. output	Approx. 300 W at 5000 r/min		
Regulated vol		14.0 – 15.0 V at 5000 r/min		
	imary peak voltage	180 V and more		(+): Ground, (–): W/BI
Starter relay re	esistance	3 – 5 Ω		
Starter motor	brush length	Standard 12.0 (0.47) Limit 6.5 (0.26)		
Detter	Type designation	YTX14-BS		
Battery	Capacity	12 V	′ 43.2 kC (12 Ah)/10 HR	
	Main		30 A	
	Power source	10 A		
	Headlight (HI)	10 A		
Fuse size	Headlight (LO)		10 A	
	Illumi		10 A	
	Ignition		10 A	
	Fan		10 A	
	Fuel		10 A	



Wattage Unit: W

ltem		Specification	
Headlight	HI	35 x 2	
liteaulight	LO	35 x 2	
Brake light/Taillight		21/5	
Combination meter light		LED	
FI indicator light		LED	
Reverse indicator light		LED	
Neutral indicator light		LED	
Engine oil temp. indicator light		LED	
High beam indicator light		LED	

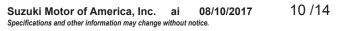
Brake + Wheel

Unit: mm (in)

Item		Limit		
Rear brake cable play		3 – 5 (0.12 – 0.20)		
Rear brake pedal free travel		20 – 30 (0.8 – 1.2)	_	
Brake disc thickness	Front	3.3 – 3.7 (0.130 – 0.146)	3.0 (0.12)	
Brake disc runout	Front	—	0.30 (0.012)	
Brake drum I.D.	Rear	—	160.7 (6.33)	
Master cylinder bore	Front	14.000 – 14.043 (0.5512 – 0.5529)	—	
Master cylinder piston diam.	Front	13.957 – 13.984 (0.5495 – 0.5506)	—	
Brake caliper cylinder bore	Front	33.960 – 34.010 (1.3370 – 1.3390)	—	
Brake caliper piston diam.	Front	33.878 – 33.928 (1.3338 – 1.3357)	—	
Brake fluid type		DOT 4		
Steering angle	Right	Right 47°		
	Left	47°	—	
Turning radius		3.1 m (10.2 ft)		
Toe-in (with 75 kg, 165 lbs)		$10 \pm 4 \; (0.39 \pm 0.16)$	_	
Camber		0.3°		
Caster		3°		
Whool rim cizo	Front	12 x 6.0 AT	_	
Wheel rim size	Rear	12 x 7.5 AT	_	

Tire

Item		Note	
	Front	32.5 kPa (0.325 kgf/cm ² , 4.7 psi)	Load capacity up
Cold inflation tire pressure	Rear	30 kPa (0.30 kgf/cm ² , 4.4 psi)	to 172 kg (380 lbs)
Tire size	Front	AT25 x 8-12 ☆☆ , tubeless	
	Rear	AT25 x 10-12 ☆☆ , tubeless	
Tire tread dopth	Front	—	Limit: 4.0 mm (0.16 in)
Tire tread depth	Rear	_	Limit: 4.0 mm (0.16 in)



Fuel + Oil

Item		Specification	Note		
	Use unleaded gasoline with an octane rating of 87 AKI or				
	higher.				
	Do not use leaded	Do not use leaded gasoline.			
	Unleaded gasoline	containing up to 15% MTBE by volume			
	may be used.				
	Unleaded gasoline	containing up to 10% ethanol by volume			
Fuel type	may be used.				
	Unleaded gasoline	Unleaded gasoline containing up to 5% methanol by volume			
	may be used if it a	may be used if it also contains appropriate cosolvents and			
	corrosion inhibitors				
Fuel tank capacity		6.0 L (4.2/3.5 US/Imp gal)			
Engine oil type	SAE 10 W-40,	API SF/SG or SH/SJ with JASO MA			
	Change	2800 ml (3.0/2.5 US/Imp qt)			
Engine oil capacity	Filter change	3100 ml (3.3/2.7 US/Imp qt)			
	Overhaul	3400 ml (3.6/3.0 US/Imp qt)			
Front/Rear drive gear oil type	Hypoid ge	Hypoid gear oil SAE #90, API grade GL-5			
Front drive (differential) gear oil	300	300 ml (10.1/10.6 US/Imp oz)			
capacity					
Final gear oil capacity	350) ml (11.8/12.3 US/Imp oz)			

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Tightening Torque List

Engine

ltem	N·m	kgf-m	lbf-ft	
Cylinder head cover bolt	10	1.0	7.0	
Camshaft sprocket bolt		15	1.5	11.0
Outinder head helt	Initial	25	2.5	18.0
Cylinder head bolt	Final	37	3.7	26.5
	Initial	10	1.0	7.0
Cylinder head nut	Final	25	2.5	18.0
Cylinder base nut		10	1.0	7.0
Cam chain tensioner bolt		13	1.3	9.5
Cam chain tension adjuster bolt		10	1.0	7.0
Cam chain tension adjuster spring holder bolt		8	0.8	6.0
Spark plug		11	1.1	8.0
Valve clearance adjuster lock-nut		10	1.0	7.0
Rocker arm shaft bolt		28	2.8	20.0
			n, 7.0 lbf-ft) then 1	
Intake pipe bolt			n, 7.0 ibi-it) then i	0 N-III (0.1 KgI-II
	Me	0.7 lbf-ft)	1 1	00
Crankcase bolt	M6	11	1.1	8.0
	M8	26	2.6	19.0
		23	2.3	16.5
Clutch shoe nut		150	15.0	108.5
Movable drive face nut		115	11.5	83.0
Movable driven face nut		115	11.5	83.0
Movable driven face ring nut		100	10.0	72.5
Generator rotor nut		140	14.0	101.0
Starter clutch bolt		26	2.6	19.0
Left crankshaft spacer nut		38	3.8	27.5
Oil pump drive gear bolt		80	8.0	58.0
Oil pressure regulator		28	2.8	20.0
Exhaust pipe nut		25	2.5	18.0
Exhaust pipe mounting bolt		25	2.5	18.0
Muffler mounting bolt		25	2.5	18.0
Muffler connecting bolt		25	2.5	18.0
Engine oil drain plug		23	2.3	16.5
Engine oil temperature sensor		9	0.9	6.5
Drive bevel gear nut		100	10.0	72.5
Driven bevel gear nut		100	10.0	72.5
	M8	40	4.0	29.0
Engine mounting nut	M10	60	6.0	43.5
Engine mounting bracket bolt		28	2.8	20.0
<u> </u>		100		72.5
Rear output shaft nut			10.0	
Air cleaner box mounting bolt		10	1.0	7.0
Dil filter		20	2.0	14.5
Main oil gallery plug	23	2.3	16.5	
Starter motor mounting bolt	10	1.0	7.0	
Starter motor lead wire mounting nut	11	1.1	8.0	
Starter motor housing bolt	5	0.5	3.5	
Recoil cover mounting bolt	10	1.0	7.0	
Generator stator set bolt		11	1.1	8.0
CKP sensor mounting bolt		6	0.6	4.3
Gearshift cam stopper nut		10	1.0	7.0
PAIR pipe mounting bolt (If equipped)		10	1.0	7.0



Differential

Item	N⋅m	kgf-m	lbf-ft
Front drive (Differential) gear oil drain plug	32	3.2	23.0
Front drive (Differential) gear oil level plug	8	0.8	6.0
Front drive (Differential) gear oil filler plug	35	3.5	25.5
Front drive (Differential) gear case mounting nut	45	4.5	32.5
Front drive (Differential) gear case cover bolt	22	2.2	16.0
Final gear case cover bolt	23	2.3	16.5
Final gear oil filler plug	33	3.3	24.0
Final gear oil level plug	10	1.0	7.0
Final gear oil drain plug	33	3.3	24.0
Final gear coupling nut	100	10.0	72.5
Final drive gear bearing lock-nut	80	8.0	58.0

FI System and Fuel System

ltem	N⋅m	kgf-m	lbf-ft
CKP sensor mounting bolt	6	0.6	4.5
TP sensor mounting bolt	3.5	0.35	2.5
Fuel pump mounting bolt	10	1.0	7.0
Fuel pressure regulator mounting bolt	10	1.0	7.0
Fuel cock mounting bolt	10	1.0	7.0
Fuel level gauge mounting bolt	4.6	0.46	3.5
Engine oil temperature sensor	9	0.9	6.5
Speed sensor mounting bolt	10	1.0	7.0
PAIR control solenoid valve bracket bolt	10	1.0	7.0

Chassis

ltem		N∙m	kgf-m	lbf-ft
Handlebar clamp bolt		26	2.6	19.0
Steering shaft holder bolt		23	2.3	16.5
Steering shaft nut		49	4.9	35.5
Steering knuckle pinch bolt		50	5.0	36.0
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
Suspension arm pivot nut (Upper & Lower)		65	6.5	47.0
Wheel hub nut	Front	110	11.0	79.5
	Rear	121	12.1	87.5
Wheel set nut	Front	60	6.0	43.5
	Rear	60	6.0	43.5
Front Brake air bleeder valve		6	0.6	4.5
Brake disc bolt		23	2.3	16.5
Brake caliper mounting bolt		26	2.6	19.0
Footrest mounting bolt	M8	26	2.6	19.0
	M10	55	5.5	40.0
Rear brake cam lever nut		11	1.1	8.0
Rear axle housing mounting bolt (Final gear case)		55	5.5	40.0
Rear axle housing mounting bolt (Swingarm)		60	6.0	43.5
Rear shock absorber mounting nut	Upper	35	3.5	25.5
	Lower	60	6.0	43.5
Rear swingarm pivot nut		102	10.2	74.0
Brake disc cover mounting bolt		12	1.2	8.5
Brake pipe flare nut		16	1.6	11.5
Master cylinder holder bolt (Upper & Lower)		10	1.0	7.0
Brake lever pivot bolt		6	0.6	4.5
Brake lever pivot bolt lock-nut		6	0.6	4.5
Rear brake pedal pivot nut		12	1.2	8.5
Front brake pad mounting pin		18	1.8	13.0
Front brake hose union bolt		23	2.3	16.5
Caliper holder slide pin nut		23	2.3	16.5
Caliper holder pin		18	1.8	13.0
Rear brake anchor panel nut		32	3.2	23.0
Steering shaft lower nut		49	4.9	35.5
Front carrier mounting bolt		28	2.8	20.0
Rear carrier mounting bolt		28	2.8	20.0
Front grip bar mounting bolt		28	2.8	20.0

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