



Motorcycle
2012 Model: AN650AL2
Date: August 2011

MSRP \$9,899



Pearl Mirage White (YPA)

Key Features

1. 638cm³, liquid-cooled engine featuring fuel-injection system and vibration-reducing dual counter balancer shafts brings smooth performance.
2. Suzuki Pulsed-secondary AIR-injection (PAIR) system and catalyzer keep emissions low.
3. Computerized Suzuki Electronically-controlled Continuously Variable Transmission (SECVT) featuring an efficient dry hybrid belt provides highly efficient performance.
4. SECVT offers three modes, two fully automatic CVT modes (Normal and Power) and Manual mode, by using a handlebar-mounted button.
5. Manual mode has six predetermined CVT ratios and are selected using Up and Down buttons on the handlebars.
6. Tubular frame and aluminum-alloy swingarm allow the engine to be mounted in a forward position for the excellent balance and agility.

7. Antilock Brake System (ABS)* monitors wheel speed, and matches stopping power to available traction.
8. 41mm-stanchion-tube front forks and dual rear shock absorbers have long wheel travels to provide comfortable ride.
9. Expansive, thickly padded seat allowing two persons to sit comfortably for long stretches. Rider backrest is adjustable without tools.
10. 56-liter (14.8 gal) underseat storage compartment enough for normal size two full-face helmets and three front compartments for small items.
11. Passenger backrest contributes to comfortable tandem riding.
12. Ignition switch fitted with a magnetic cover that opens only with correctly coded key for the security.
13. Comprehensive digital instrument cluster with a speedometer, odometer, trip meter, oil-change indicator, freeze indicator and oil-level indicator, and shift indicator showing D for automatic operation, and 1 to 6 for manual operation.
14. DC accessory outlet to charge electrical devices.
15. Electrically controlled rearview mirrors and height adjustable windscreen add more convenience.
16. Bright eye-catching chrome plating on the muffler cover, muffler end cap and handlebar end caps for bold and powerful styling.

*ABS is a supplemental device for brake operation, not a device for shortening stopping distance. Always remember to reduce speed sufficiently before approaching curves and corners.



SPECIFICATIONS**MODEL: AN650AL2****DIMENSIONS AND CURB MASS**

Overall length.....	2260 mm (89.0 in)
Overall width.....	810 mm (31.9 in)
Overall height.....	1435 mm (56.5 in)
Wheelbase.....	1595 mm (62.8 in)
Ground clearance.....	130 mm (5.1 in)
Seat height.....	750 mm (29.5 in)
Curb mass.....	278 kg (613 lbs)..... E-33

ENGINE

Type.....	4-stroke, liquid-cooled, DOHC
Number of cylinders.....	2
Bore.....	75.5 mm (2.97 in)
Stroke.....	71.3 mm (2.81 in)
Displacement.....	638 cm ³ (38.9 cu. in)
Compression ratio.....	11.2 : 1
Fuel system.....	Fuel injection
Air cleaner.....	Non-woven fabric element
Starter system.....	Electric
Lubrication system.....	Wet sump
Idle speed.....	1200 ± 100 r/min

DRIVE TRAIN

Clutch.....	Wet multi-plate, automatic, centrifugal type
Transmission.....	SECVT
Gearshift pattern.....	Automatic & Manual shift
Primary reduction ratio.....	1.333 (88/66)
Automatic transmission ratio.....	1.800 - 0.465 (Variable)
Secondary reduction ratio.....	3.934 (39/31 × 43/25 × 40/22)
Final reduction ratio.....	1.580 (32/31 × 31/32 × 34/31 × 49/34)
Drive system.....	Gear drive

CHASSIS

Front suspension.....	Telescopic, coil spring, oil damped
Rear suspension.....	Swingarm type, coil spring, oil damped
Front fork stroke.....	110 mm (4.3 in)
Rear wheel travel.....	100 mm (3.9 in)
Caster.....	26° 10'
Trail.....	106 mm (4.17 in)
Steering angle.....	41° (right & left)
Turning radius.....	2.7 m (8.9 ft)
Front brake.....	Disc brake, twin
Rear brake.....	Disc brake
Front tire.....	120/70R15M/C 56H, tubeless
Rear tire.....	160/60R14M/C 65H, tubeless

ELECTRICAL

Ignition type.....	Electronic ignition (Transistorized)
Ignition timing.....	10° B.T.D.C. at 1200 r/min
Spark plug.....	NGK CR8E or DENSO U24ESR-N
Battery.....	12V 43.2 kC (12 Ah)/10HR
Generator.....	Three-phase A.C. generator
Main fuse.....	40A
CVT fuse.....	40A
Fuse.....	20/15/15/15/15/15/15/15/15/10/3A
Headlight.....	12V 60/55W(H4) × 2..... E-33
Brake/Tail light.....	12V 21/5W × 2
Turn signal light.....	12V 21W
License plate light.....	12V 5W
Trunk light.....	12V 5W
Instrument panel light.....	LED × 11
Turn signal indicator light.....	LED × 2
Coolant temperature indicator light.....	LED
Fuel injection indicator light.....	LED
Oil pressure indicator light.....	LED
High beam indicator light.....	LED
Brake lock indicator light.....	LED
ABS indicator light.....	LED
Freeze indicator light.....	LED

CAPACITIES

Fuel tank	15.0 L (4.0/3.3 US/Imp gal)
Engine oil, oil change.....	2600 ml (2.7/2.3 US/Imp qt)
with filter change.....	2900 ml (3.1/2.6 US/Imp qt)
overhaul.....	3400 ml (3.6/3.0 US/Imp qt)
Transmission oil, oil change.....	360 ml (12.2/12.7 US/Imp oz)
overhaul.....	400 ml (13.5/14.1 US/Imp oz)
Final gear oil, oil change.....	300 ml (10.1/10.6 US/Imp oz)
overhaul.....	430 ml (14.5/15.1 US/Imp oz)
Coolant.....	1.6 L (1.7/1.4 US/Imp qt)

**SERVICE DATA
VALVE + GUIDE**

Unit: mm (in)

ITEM	STANDARD		LIMIT
Valve diam.	IN.	29.5 (1.16)	—
	EX.	25.0 (0.98)	—
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 – 0.040 (0.0004 – 0.0016)	—
	EX.	0.030 – 0.060 (0.0012 – 0.0024)	—
Valve guide I.D.	IN. & EX.	4.500 – 4.515 (0.1772 – 0.1778)	—
Valve stem O.D.	IN.	4.475 – 4.490 (0.1762 – 0.1768)	—
	EX.	4.455 – 4.470 (0.1754 – 0.1760)	—
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.)	IN. & EX.	—	40.6 (1.60)
Valve spring tension (IN. & EX.)	IN. & EX.	136 – 156 N (13.6 – 15.6 kgf, 30.0 – 34.4 lbs) at length 33.4 mm (1.31 in)	—

CAMSHAFT + CYLINDER HEAD

Unit: mm (in)

ITEM	STANDARD		LIMIT
Cam height	IN.	35.38 – 35.43 (1.393 – 1.395)	35.10 (1.382)
	EX.	33.98 – 34.03 (1.338 – 1.340)	33.70 (1.327)
Camshaft journal oil clearance	IN. & EX.	0.032 – 0.066 (0.0013 – 0.0026)	0.150 (0.0059)
Camshaft journal holder I.D.	IN. & EX.	24.012 – 24.025 (0.9454 – 0.9459)	—
Camshaft journal O.D.	IN. & EX.	23.959 – 23.980 (0.9433 – 0.9441)	—
Camshaft runout	IN. & EX.	—	0.10 (0.004)
Cam chain pin (at arrow "3")	15th pin		—
Cylinder head distortion	—		0.10 (0.004)

CYLINDER + PISTON + PISTON RING

Unit: mm (in)

ITEM	STANDARD			LIMIT
Compression pressure	1 500 – 1 900 kPa (15.0 – 19.0 kgf/cm ² , 213 – 270 psi)			1 200 kPa (12.0 kgf/cm ² , 171 psi)
Compression pressure difference	—			200 kPa (4.0 kgf/cm ² , 28 psi)
Piston to cylinder clearance	0.025 – 0.035 (0.0010 – 0.0014)			0.120 (0.0047)
Cylinder bore	75.500 – 75.515 (2.9724 – 2.9730)			Nicks or scratches
Piston diam.	74.470 – 74.485 (2.9319 – 2.9325) Measure at 15 mm (0.6 in) from the skirt end.			75.380 (2.9677)
Cylinder distortion	—			0.10 (0.004)
Piston ring free end gap	1st	R	Approx. 11.8 (0.46)	9.4 (0.37)
	2nd	RN		
Piston ring end gap	1st & 2nd		0.06 – 0.18 (0.002 – 0.007)	0.50 (0.020)
Piston ring to groove clearance	1st		—	0.180 (0.0071)
	2nd		—	0.150 (0.0059)
Piston ring groove width	1st & 2nd		1.01 – 1.03 (0.0398 – 0.0406)	—
	Oil		2.01 – 2.03 (0.0791 – 0.0799)	—
Piston ring thickness	1st & 2nd		0.97 – 0.99 (0.0382 – 0.0390)	—
Piston pin bore	16.002 – 16.008 (0.6300 – 0.6302)			16.030 (0.6311)
Piston pin O.D.	15.995 – 16.000 (0.6297 – 0.6299)			15.980 (0.6291)

CONROD + CRANKSHAFT

Unit: mm (in)

ITEM	STANDARD			LIMIT
Conrod small end I.D.	16.010 – 16.018 (0.6303 – 0.6306)			16.040 (0.6315)
Conrod big end side clearance	0.10 – 0.20 (0.004 – 0.008)			0.30 (0.012)
Conrod big end width	19.95 – 20.00 (0.785 – 0.787)			—
Crank pin width	20.10 – 20.15 (0.791 – 0.793)			—
Conrod big end oil clearance	0.032 – 0.056 (0.0013 – 0.0022)			0.080 (0.0031)
Crank pin O.D.	44.976 – 45.000 (1.7707 – 1.7717)			—
Crankshaft journal oil clearance	0.018 – 0.045 (0.0007 – 0.0018)			0.080 (0.0031)
Crankshaft journal O.D.	47.985 – 48.000 (1.8892 – 1.8898)			—
Crankshaft thrust bearing thickness	2.025 – 2.175 (0.0797 – 0.0856)			—
Crankshaft thrust clearance	0.10 – 0.15 (0.004 – 0.006)			—
Crankshaft runout	—			0.05 (0.002)

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pressure (at 60 °C, 140 °F)	Above 350 kPa (3.5 kgf/cm ² , 49.8 psi) Below 550 kPa (5.5 kgf/cm ² , 78.2 psi) at 3 000 r/min	—

CLUTCH

Unit: mm (in)

ITEM	STANDARD	LIMIT
Drive plate thickness	2.92 – 3.08 (0.115 – 0.121)	2.62 (0.103)
Drive plate claw width	13.85 – 13.96 (0.545 – 0.550)	13.35 (0.526)
Driven plate No.2 thickness	—	0.10 (0.004)
Clutch spring free length	13.9 (0.547)	13.2 (0.520)
Clutch plate concaved washer height	3.4 (0.134)	3.3 (0.130)
Clutch engagement	1 500 – 2 100 r/min	—
Clutch lock-up	3 200 – 3 800 r/min	—

INJECTOR + FUEL PUMP + FUEL PRESSURE REGULATOR

ITEM	SPECIFICATION	NOTE
Injector resistance	11 – 13 Ω at 20 °C (68 °F)	—
Fuel pump discharge amount	More than 0.375 L (0.396/0.330 US/Imp qt) For 30 sec. at 300 kPa (3.0 kgf/cm ² , 43 psi)	—
Fuel pressure regulator operating set pressure	Approx. 300 kPa (3.0 kgf/cm ² , 43 psi)	—

FI/CVT-SENSORS

ITEM	SPECIFICATION		NOTE
CMP sensor resistance	0.9 – 1.7 kΩ		
CMP sensor peak voltage	More than 0.5 V (When cranking)		(+): B/Y, (-): Br
CKP sensor resistance	150 – 300 Ω		
CKP sensor peak voltage	More than 2.0 V (When cranking)		(+): Bl, (-): G
IAP sensor input voltage	4.5 – 5.5 V		
IAP sensor output voltage	Approx. 1.1 V		
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 resistance	Approx. 2.45 kΩ at 20 °C (68 °F)		
IAT sensor input voltage	4.5 – 5.5 V		
IAT sensor resistance	Approx. 2.45 kΩ at 20 °C (68 °F)		
AP sensor input voltage	4.5 – 5.5 V		
AP sensor output voltage	Approx. 3.6 kΩ at 100 kPa (1.0 kgf/cm ² , 14.2 psi)		
Injector voltage	Battery voltage		
TO sensor resistance	19.1 – 19.7 kΩ		
TO sensor output voltage	Normal	0.4 – 1.4 V	(+) : Br/R, (-) : B/Br
	Learning	3.7 – 4.4 V	
Ignition coil primary peak voltage	More than 80 V (When cranking)		#1 (+): W/Bl (-) : Ground #2 (+): B/Y (-) : Ground
HO2 sensor heater resistance	Approx. 13Ω at 20 °C (68 °F)		
HO2 sensor output voltage	Idle speed	0 – 1.0 V	
	5 000 r/min	0 – 1.0 V	
PAIR solenoid valve resistance	20 – 24 Ω at 20 °C (68 °F)		
CVT primary pulley position sensor	Compressed	1.9 – 2.3 kΩ	
	Extended	0.2 – 1.0 kΩ	
CVT primary pulley position sensor output voltage	1 st : Idle speed	Approx. 3.3 V	
	3 rd : 3 000 r/min	Approx. 1.3 V	
	5 th : 3 000 r/min	Approx. 0.5 V	
CVT secondary pulley revolution sensor resistance	400 – 600 Ω		
CVT secondary pulley revolution sensor peak voltage	More than 5 V at idle speed		(+) : Y, (-) : W

THROTTLE BODY

ITEM	SPECIFICATION
I.D. No.	10G2
Bore size	32.0 mm (1.26 in)
Fast idle r/min	1 200 – 1 600 r/min
Idle r/min	1 200 ± 100 r/min
ISC valve resistance	Approx. 80 Ω at 25 °C (77 °F)
Throttle cable play	2.0 – 4.0 mm (0.08 – 0.16 in)

THERMOSTAT + RADIATOR + FAN + COOLANT

ITEM	STANDARD/SPECIFICATION		LIMIT
Thermostat valve opening temperature	Approx. 88 °C (190 °F)		—
Thermostat valve lift	Over 8.0 mm (0.3) at 100 °C (212 °F)		—
Engine coolant temperature 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 kPa (1.1 kgf/cm ² , 16.0 psi)		—
Electric fan thermo-switch operating temperature	OFF→ON	93 – 103 °C (199 – 217 °F)	—
	ON→OFF	87 – 97 °C (188 – 206 °F)	
Engine coolant type	Use an anti-freeze/coolant compatible with aluminum radiator, mixed with distilled water only, at the ratio of 50:50.		—
Engine coolant including reserve	Reverse tank side	Approx. 250 ml (0.264/0.220 US/Imp qt)	—
	Engine side	Approx. 1 350 ml (1.427/1.188 US/Imp qt)	—

ELECTRICAL

ITEM	STANDARD/SPECIFICATION		NOTE	
Firing order	1-2			
Spark plug	Type	NGK: CR8E DENSO: U24ESR-N		
	Gap	0.7 – 0.8 mm (0.028 – 0.031 in)		
Spark performance	Over 8.0 mm (0.3 in) at 1 atm.			
CKP sensor peak voltage	More than 2.0 V (When cranking)		(+): Bl, (-): G	
Ignition coil resistance	Primary	0.8 – 2.5 Ω		
	Secondary	8 – 18 k Ω		
Ignition coil primary peak voltage	More than 80 V (When cranking)		#1 (+): W/Bl (-): Ground #2 (+): B/Y (-): Ground	
Generator coil resistance	CKP sensor	150 – 300 Ω	G – Bl	
	Charging	0.1 – 1.0 Ω	Y – Y	
Generator no-load voltage (When cold)	More than 50 V at 5 000 r/min			
Generator Max. output	Approx. 500 W at 5 000 r/min			
Regulated voltage	14.0 – 15.5 V at 5 000 r/min			
Starter relay resistance	3 – 6 Ω			
Battery	Type designation	FTX14-BS		
	Capacity	12 V 43.2 kC (12 Ah)/10 HR		
Fuse size	Head-light	HI	15 A	
		LO	15 A	E-24, 28, 33
			10 A	E-02, 19, 51
	Fuel pump	10 A		
	Ignition	15 A	E-24, 28, 33	
		10 A	E-02, 19, 51	
	Turn signal	15 A		
	Fan motor	15 A		
	Main	40 A		
	CVT	40 A		
	Power source	15 A		
	ABS	15 A \times 2		
	Wind screen	20 A		
	Mirror	3 A		
	Seat heater	5 A	E-02, 19, 28, 51	

WATTAGE

Unit: W

ITEM		STANDARD/SPECIFICATION		
		E-02, 19, 51	E-24	E-03, 28, 33
Headlight	HI	60	60 × 2	←
	LO	55 × 2	←	←
Parking or position light		5 × 2		
Brake/Tail light		21/5 × 2	←	←
Turn signal light		21 × 4	←	←
License plate light		5	←	←
Instrument panel light		LED × 11	←	←
Engine coolant temp. indicator light		LED	←	←
FI indicator light		LED	←	←
Engine oil pressure indicator light		LED	←	←
Brake lock indicator light		LED	←	←
High beam indicator light		LED	←	←
Turn signal indicator light		LED × 2	←	←
Trunk light		5	←	←
ABS warning indicator light		LED	←	←
Immobilizer indicator light		LED	←	
Freeze indicator light		LED	←	←

BRAKE + WHEEL

Unit: mm (in)

ITEM	STANDARD		LIMIT
Brake disc thickness	Front	4.5 ± 0.2 (0.177 ± 0.008)	4.0 (0.16)
	Rear	5.5 ± 0.2 (0.217 ± 0.008)	5.0 (0.20)
Brake disc runout	—		0.30 (0.012)
Master cylinder bore	Front	12.700 – 12.743 (0.5000 – 0.5017)	—
	Rear	12.700 – 12.743 (0.5000 – 0.5017)	—
Master cylinder piston diameter	Front	12.657 – 12.684 (0.4983 – 0.4994)	—
	Rear	12.657 – 12.684 (0.4983 – 0.4994)	—
Brake caliper cylinder bore	Front	25.400 – 25.450 (1.0000 – 1.0020)	—
	Rear	27.000 – 27.050 (1.0630 – 1.0650)	—
Brake caliper piston diameter	Front	25.318 – 25.368 (0.9968 – 0.9987)	—
	Rear	26.918 – 26.968 (1.0598 – 1.0617)	—
Brake fluid type	DOT 4		—
Wheel rim runout	Axial	—	2.0 (0.08)
	Radial	—	2.0 (0.08)
Wheel axle runout	Front	—	0.25 (0.010)
	Rear	—	0.25 (0.010)
Wheel rim size	Front	15 M/C×MT3.50	—
	Rear	14 M/C×MT4.50	—

SUSPENSION

Unit: mm (in)

ITEM	STANDARD	LIMIT
Front fork stroke	110 (4.3)	—
Front fork spring free length	—	341 (13.4)
Front fork oil type	SUZUKI FORK OIL G-10 or an equivalent fork oil	—
Front fork oil capacity (each leg)	458 ml (15.5/16.1 US/Imp oz)	—
Front fork oil level	151 (5.9)	—
Front fork inner tube diam.	41.0 (1.61)	—
Rear wheel travel	100 (3.9)	—
Rear shock absorber spring adjuster	2nd	—

TIRE

Unit: mm (in)

ITEM		STANDARD		LIMIT
Cold inflation tire pressure	Solo riding	Front	225 kPa (2.25 kgf/cm ² , 33 psi)	—
		Rear	280 kPa (2.80 kgf/cm ² , 41 psi)	—
	Dual riding	Front	225 kPa (2.25 kgf/cm ² , 33 psi)	—
		Rear	280 kPa (2.80 kgf/cm ² , 41 psi)	—
Tire size		Front	120/70R 15M/C 56H	—
		Rear	160/60R 14M/C 65H	—
Tire type		Front	BRIDGESTONE TH01F	—
		Rear	BRIDGESTONE TH01R M	—
Tire tread depth (Recommended depth)		Front	—	1.6 (0.06)
		Rear	—	2.0 (0.08)

FUEL + OIL

ITEM	SPECIFICATION		NOTE
Fuel type	Gasoline used should be graded 91 octane or higher. An unleaded gasoline is recommended.		
Fuel tank capacity	Including reserve	15.0 L (4.0/3.3 US/Imp gal)	
	Fuel meter mark flickering	Approx. 3.0 L (0.79/0.66 US/Imp gal)	
	Fuel meter mark and LCD flickering	Approx. 1.5 L (0.40/0.33 US/Imp gal)	
Engine oil and transmission oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA		
Engine oil capacity	Oil change	2.6 L (2.7/2.3 US/Imp qt)	
	Filter change	2.9 L (3.1/2.6 US/Imp qt)	
	Overhaul	3.4 L (3.6/3.0 US/Imp qt)	
Transmission oil capacity	Oil change	360 ml (12.2/12.7 US/Imp oz)	
	Overhaul	400 ml (13.5/14.1 US/Imp oz)	
Final gear oil type	Hypoid gear oil SAE #90, API grade GL-5		
Final gear oil capacity	Oil change	300 ml (10.1/10.6 US/Imp oz)	
	Overhaul	430 ml (14.5/15.1 US/Imp oz)	

TIGHTENING TORQUE ENGINE

ITEM		N·m	kgf·m	lbf·ft
Cylinder head cover bolt		10→14	1.0→1.4	7.3→10.0
Cylinder head bolt	M8	25	2.5	18.0
	M10	25→53	2.5→5.3	18.0→38.5
Cam chain tension adjuster bolt		10	1.0	7.3
Clutch spring set bolt		5.5	0.55	4.0
Clutch housing nut		70	7.0	50.5
Generator rotor bolt		160	16.0	115.5
Starter clutch bolt		55	5.5	40.0
Crankcase bolt	M6	11	1.1	8.0
	M8	26	2.6	19.0
Oil pressure switch		13	1.3	9.5
Engine oil drain plug		23	2.3	16.5
Transmission oil drain plug		21	2.1	15.0
Transmission breather plug		35	3.5	25.5
Transmission oil filter plug		23	2.3	16.5
Transmission oil level plug		21	2.1	15.0
Right crankcase cover bolt		11	1.1	8.0
Primary shaft cap bolt		11	1.1	8.0
Breather cover bolt		10	1.0	7.3
Spark plug		11	1.1	8.0
Camshaft holder bolt		10	1.0	7.3
Cylinder head side bolt		14	1.4	10.0
Cam position sensor bolt		10	1.0	7.3
Oil level switch bolt		10	1.0	7.3
Oil cooler union bolt		70	7.0	50.5
Engine mount bolt		55	5.5	40.0
Final gear oil drain plug		33	3.3	24.0
Final gear oil level plug		33	3.3	24.0
Exhaust pipe clamp bolt		23	2.3	16.5
Muffler mounting bolt		23	2.3	16.5
Oil hose union bolt (M10)		20	2.0	14.5
Oil return hose union bolt (M14)		28	2.8	20.5
Timing cap		15	1.5	11.0
Driveshaft nut		105	10.5	76.0
Connecting rod bolt		21 N·m (2.1 kgf·ft, 15.0 lbf·ft) →turn clockwise 90°		
Starter motor mounting bolt		6	0.6	4.5
Starter motor lead wire nut		6	0.6	4.5

CVT

ITEM		N·m	kgf·m	lbf·ft
CVT mounting bolt		50	5.0	36.0
Primary pulley stopper bolt		36	3.6	26.0
CVT cover bolt		22	2.2	16.0
Primary pulley shaft bolt		93	9.3	67.5
Secondary pulley shaft nut		226	22.6	163.5

CHASSIS

ITEM		N·m	kgf·m	lbf·ft
Handlebar clamp bolt		23	2.3	16.5
Steering stem head nut		65	6.5	47.0
Steering stem nut		45 N·m (4.5 kgf·m, 32.5 lbf·ft) →turn counterclockwise 1/4 – 1/2		
Front fork upper clamp bolt		23	2.3	16.5
Front fork lower clamp bolt		23	2.3	16.5
Front fork cap bolt		23	2.3	16.5
Front fork cylinder bolt		30	3.0	21.5
Front axle		65	6.5	47.0
Front axle pinch bolt		23	2.3	16.5
Brake hose union bolt		23	2.3	16.5
Brake disc bolt (Front and Rear)		23	2.3	16.5
Brake air bleeder valve (Front and Rear)		7.5	0.75	5.5
Brake caliper mounting bolt (Front and Rear)		26	2.6	19.0
Brake master cylinder mounting bolt (Front and Rear)		10	1.0	7.0
Front brake caliper holder pin		13	1.3	9.5
Front brake pad mounting pin plug		2.5	0.25	1.8
Brake pad mounting pin (Front and Rear)		18	1.8	13.0
Rear brake caliper holder sliding pin (Shorter)		13	1.3	9.5
Rear brake caliper holder sliding pin (Longer)		23	2.3	16.5
Brake-lock housing bolt		23	2.3	16.5
Brake-lock adjuster locknut		9.5	0.95	7.0
Brake pipe nut		16	1.6	11.5
Swingarm pivot bolt		9.5	0.95	7.0
Swingarm pivot bolt locknut		100	10.0	72.5
Rear shock absorber mounting nut (Upper)		29	2.9	21.0
Rear shock absorber mounting bolt (Lower)		29	2.9	21.0
Rear axle nut		100	10.0	72.5
Seat rail mounting bolt	M8	23	2.3	16.5
	M10	50	5.0	36.0
Side-stand bolt		50	5.0	36.0
Side-stand nut		40	4.0	29.0
Center stand bracket bolt		23	2.3	16.5
Center stand nut		29	2.9	21.0
Harness guide bolt		10	1.0	7.0