Motorcycle
2012 Model: AN400AL2
Date: June 2011

Pearl Mirage White (YPA)

Key Features

1. 400cm3, 4-stroke, 1-cylinder, DOHC, fuel-injected engine for polished performance.

2. DOHC valve arrangement allows optimal positioning of the inlet and exhaust valves for better mechanical smoothness and more efficient combustion. The benefits can be felt in smooth, instantly available acceleration. And thanks to a 13.5-liter fuel tank, they can be enjoyed over long distances between fuel stops.

3. Large exhaust catalyzer is promoted by an O2-feedback system with fuel-injection arrangement.

4. Automatic Idle Speed Control (ISC) system ensures optimal idling under various conditions.

5. 14-inch front wheel carries 260mm hydraulic dual disc brake, and rear wheel has a 210mm hydraulic disc brake for reliable control.

6. Easy-to-operate lever in the front bodywork can be conveniently used to apply a lock system that acts on the rear brake when parked.

7. Lightweight and high rigidity underbone frame is built from large-diameter, thin-wall tubes.

8. Telescopic 41mm inner-tube front forks with a generous 110mm of wheel travel, and motorcycle-style link-type monoshock absorber rear suspension has adjustable preload. The overall benefits are motorcycle levels of handling and exceptional maneuverability.

9. Abundant luggage space; huge 62-liter storage bay, large enough for two normal full-face helmets or A3-size document case, and a smaller compartment for small personal items. Convenient switchable underseat lights to illuminate entire underseat area.

10. Front bodywork contains three lidded storage compartments; a large 10-liter compartment with a convenient DC power outlet for charging electric devices in the move, and two smaller compartments above it.

11. Stepped dual seat for comfort and confidence. The rider's backrest is adjustable in five 10mm increments at the press of a lever. Cut-away footboards allow stop-start legwork without uncomfortable stretching.

12. The comprehensive and easy-to-read instrument package incorporates a speedometer, a tachometer, an odometer, twin tripmeters, a clock, and indicators for the ambient temperature, average fuel consumption, fuel level, and coolant temperature.

13. Antilock Brake System (ABS)* monitors wheel speed, and matches stopping power to available traction.

*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.

Glass Sparkle Black (YVB)

SPECIFICATIONS MODEL: AN400AL2

DIMENSIONS AND CURB MASS

Overall length..... 2270 mm (89.4 in)
Overall width..... 825 mm (32.5 in)
Overall height..... 1385 mm (54.5 in)
Wheelbase..... 1585 mm (62.4 in)
Ground clearance..... 125 mm (4.9 in)
Seat height..... 710 mm (28.0 in)
Curb mass..... 223 kg (492lbs)...E33

ENGINE

Type..... 4-stroke, liquid-cooled, DOHC
Number of cylinders..... 1
Bore..... 81.0 mm (3.189 in)
Stroke..... 77.6 mm (3.055 in)
Displacement..... 400 cm^3 (24.4 cu. in)
Compression ratio..... 11.2 : 1
Fuel system..... Fuel injection
Air cleaner..... Paper element
Starter system..... Electric
Lubrication system..... Wet sump
Idle speed..... 1450 ± 100 r/min

DRIVE TRAIN

Clutch.....Dry shoe, automatic, centrifugal type
Gearshift pattern..... Automatic
Primary reduction ratio (Automatic drive)..... 2.200 - 0.839 (variable change)
Final reduction ratio..... 6.484 (31/14 × 41/14)
Drive system..... V-belt drive

CHASSIS

Front suspension..... Telescopic, coil spring, oil damped
Rear suspension..... Link type, coil spring, oil damped
Front fork stroke..... 110 mm (4.3 in)
Rear wheel travel..... 100 mm (3.9 in)
Caster..... 25°20’
Trail..... 102 mm (4.02 in)
Steering angle..... 40° (right & left)
Turning radius..... 2.7 m (8.9 ft)
Front brake..... Disc brake twin
Rear brake..... Disc brake
Front tire size..... 120/80-14 M/C 58S, tubeless
Rear tire size..... 150/70-13 M/C 64S, tubeless

ELECTRICAL

Ignition type..... Electronic ignition (Transistorized)
Ignition timing..... 7° B.T.D.C. at 1 450 r/min
Spark plug..... NGK CR7E or DENSO U22ESR-N
Battery..... 12V 32.4 kC (9 Ah)/10HR
Generator..... Three-phase A.C. generator
Main fuse..... 30A
Fuse..... 10 /10 /10 /10 /15 /10A
ABS fuse..... 15 /20A
Headlight..... 12V 60/55W (H4) + 55W (H7)

Position/Parking light..... 12V 5W × 2
Brake light/Taillight..... 12V 21/5W × 2
License plate light..... 12V 5W
Trunk light..... 12V 5W
Front turn signal light..... 12V 21W
Rear turn signal light..... 12V 21W
Speedometer/Tachometer light..... LED
Coolant temperature gauge light..... LED
Fuel level gauge light..... LED
Turn signal indicator light..... LED × 2
High beam indicator light..... LED
Brake lock indicator light..... LED
Fuel injection indicator light..... LED
Immobilizer indicator light..... LED
ABS indicator light..... LED
Oil change indicator..... LCD

CAPACITIES

Fuel tank .....13.5 L (3.0 Imp gal)
Engine oil , oil change.....1200 ml (1.1 Imp qt)
with filter change..... 1300 ml (1.1 Imp qt)
overhaul..... 1500 ml (1.3 Imp qt)
Final gear oil , oil change.....180 ml (6.3 Imp oz)
overhaul..... 190 ml (6.7 Imp oz)
Coolant.....1.6 L (1.4 Imp qt)

Model: AN400L2-02, 19 Date: Dcember 21, 2011

AN400AL2 E-19, 24 , 33

AN400ZAL2 E-02, 19, 28, 51

SERVICE DATA

VALVE + GUIDE

Unit: mm (in)

ITEM	STANDARD		LIMIT
Valve diam.	IN.	31.0 (1.22)	—
	EX.	27.0 (1.06)	—
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.	4.500 – 4.512 (0.1772 – 0.1776)	—
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.	—	38.6 (1.52)
Valve spring tension	IN. & EX.	137.3 N (14.0 kgf, 30.1 lbs) at length 33.35mm (1.313 in)	—

CAMSHAFT + CYLINDER HEAD

Unit: mm (in)

ITEM	STANDARD		LIMIT
Cam height	IN.	36.61 – 36.66 (1.441 – 1.443)	36.31 (1.430)
	EX.	35.94 – 35.98 (1.415 – 1.417)	35.64 (1.403)
Camshaft journal oil clearance	IN. & EX.	0.019 – 0.053 (0.0007 – 0.0021)	0.15 (0.006)
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)
Cam chain pin (at arrow “3”)	15th pin		—
Cylinder head distortion	—		0.05 (0.002)

CYLINDER + PISTON + PISTON RING

Unit: mm (in)

ITEM	STANDARD		LIMIT
Compression pressure	E-02, 19, 51	1 060 – 1 140 kPa (10.6 – 11.4 kgf/cm^2, 151 – 162 psi)	660 kPa (6.6 kgf/cm^2, 94 psi)
	E-03, 28, 33	1 000 – 1 080 kPa (10.0 – 10.8 kgf/cm^2, 142 – 154 psi)	620 kPa (6.2 kgf/cm^2, 88 psi)
Piston to cylinder clearance	0.025 – 0.035 (0.0010 – 0.0014)		0.120 (0.0047)
Cylinder bore	81.000 – 81.015 (3.1890 – 3.1896)		Nicks or scratches
Piston diam.	80.970 – 80.985 (3.1878 – 3.1884) Measure at 15 mm (0.6 in) from the skirt end.		80.880 (3.1843)
Cylinder distortion	—		0.10 (0.004)
Piston ring free end gap	1st	Approx. 6.5 (0.26)	5.2 (0.20)
	2nd 2T	Approx. 9.0 (0.35)	7.2 (0.28)
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	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	1.08 – 1.10 (0.0425 – 0.0433)	—
	2nd	0.97 – 0.99 (0.0382 – 0.0390)	—
Piston pin bore	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	21.95 – 22.00 (0.864 – 0.866)	—
Width between crankshaft webs	59.9 – 60.1 (2.36 – 2.37)	—
Crankshaft thrust bearing thickness	2.025 – 2.175 (0.0797 – 0.0856)	—
Crankshaft runout	—	0.08 (0.003)

OIL PUMP

ITEM	STANDARD	LIMIT
Oil pressure (at 60 °C, 140 °F)	Above 30 kPa (0.3 kgf/cm^2, 4.27 psi) Below 110 kPa (1.1 kgf/cm^2, 15.65 psi) at 3 000 r/min	—

CLUTCH

Unit: mm (in)

ITEM	STANDARD	LIMIT
Clutch wheel I.D.	160.0 – 160.2 (6.30 – 6.31)	160.5 (6.32)
Clutch shoe thickness	5.0 (0.20)	2.0 (0.08)
Engage r/min	2 600 – 3 200 r/min	—
Lock-up r/min	4 000 – 5 000 r/min	—

TRANSNISSION

Unit: mm (in) except ratio

ITEM	SPECIFICATION	LIMIT
Primary reduction ratio	1.000	—
Reduction ratio	2.200 – 0.839	—
Secondary reduction ratio	2.214 (31/14)	—
Final reduction ratio	2.928 (41/13)	—
Drive V-belt width	26.1 (1.03)	25.1 (0.99)
Movable driven face spring free length	145.0 (5.71)	137.8 (5.43)
Movable drive face ware	—	0.4 (0.02)

INJECTOR + FUEL PUMP + FUEL PRESSURE REGULATOR

ITEM	SPECIFICATION	NOTE
Injector resistance	Approx. 10.3 Ω at 20 °C (68 °F)	—
Fuel pump discharge amount	35 ml (1.18/1.23 US/Imp qt) For 10 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 SENSORS

ITEM	SPECIFICATION		NOTE
IAP sensor input voltage	4.5 – 5.5 V		
IAP sensor output voltage	Approx. 1.5 V – 3.5 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	
ECT sensor input voltage	4.5 – 5.5 V		
ECT sensor resistance	Approx. 2.58 kΩ at 20 °C (68 °F)		
IAT sensor input voltage	4.5 – 5.5 V		
IAT sensor resistance	Approx. 2.58 kΩ at 20 °C (68 °F)		
TO sensor resistance	16.5 – 22.3 kΩ		
TO sensor output voltage	Normal	0.4 – 1.4 V	
	Leaning	3.7 – 4.4 V	
Injector voltage	Battery voltage		
Ignition coil primary peak voltage	150 V and more (When cranking)		(+):W, (-):Ground
HO2 sensor heater resistance	11.5 – 14.5 Ω at 23 °C (73.4 °F)		
HO2 sensor output voltage	Idle speed	0.4 – 1.4 V	
	3 000 r/min	3.7 – 4.4 V	
STP sensor input voltage	4.5 – 5.5 V		
STP sensor output voltage	Closed	Approx. 0.5 V	
	Opened	Approx. 3.9 V	
STP actuator resistance	Approx. 6.5 Ω		

THROTTLE BODY

ITEM	SPECIFICATION	
	E-02, 03, 19, 24, 28, 51	E-33
I.D. No.	05H2	05H3
Bore size	38.0 mm (1.50 in)	
Fast idle r/min	1 500 – 2 000 r/min	
Idle r/min	1 450 ± 100 r/min	
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. 82 °C (180 °F)		—
Thermostat valve lift	Over 3.0 mm (0.12 in) at 95 °C (203 °F)		—
Engine coolant temperature 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	93.3 – 122.7 kPa (0.93 – 1.23 kgf/cm^2,13.3 – 17.4 psi)		—
Electric fan thermo-switch operating temperature	OFF→ON	Approx. 98 °C (208 °F)	—
	ON→OFF	Approx. 92 °C (198 °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 (0.26/0.22 US/Imp qt)	—
	Engine side	Approx. 1 700 ml (1.80/1.50 US/Imp qt)	—

ELECTRICAL

ITEM	STANDARD/SPECIFICATION			NOTE	
Spark plug	Type		NGK: CR7E DENSO: U22ESR-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 resistance	190 – 290 Ω			E-02, 19, 24, 51	
	196 – 290 Ω			E-03, 28, 33	
CKP sensor peak voltage	4.5 V and more (When cranking)			(+):G/W, (-):Bl	E-02, 19, 24, 51
	4.0 V and more (When cranking)			(+):G/W, (-):Bl	E-03, 28, 33
Ignition coil resistance	Primary		1.2 – 3.5 Ω		
	Secondary		15 – 30 kΩ		
Ignition coil primary peak voltage	150 V and more (When cranking)			(+):W, (-):Ground	
Generator coil resistance	Charging		0.1 – 1.0 Ω	Y – Y	
Generator no-load voltage (When cold)	55 V and more at 5 000 r/min			E-02, 19, 24, 51	
	65 V and more at 5 000 r/min			E-03, 28, 33	
Generator Max. output	Approx. 400 W at 5 000 r/min				
Starter motor brush length	Standard		7.0 (0.28)		
	Limit		3.5 (0.14)		
Regulated voltage	14.0 – 15.5 V at 5 000 r/min				
Starter relay resistance	3 – 6 Ω				
Battery	Type designation		FTZ9-BS		
	Capacity		12 V 32.4 kC (9 Ah)/10 HR		
Fuse size	Head-light	HI	15 A	E-03, 28, 33	
			10 A	E-02, 19, 24, 51	
		LO	15 A	E-03, 28, 33	
			10 A	E-02, 19, 24, 51	
	Meter		15 A	AN400	
			10 A	AN400A/ZA	
	Ignition		15 A	AN400A/ZA E-28, 33	
			10 A	Others	
	Turn signal		15 A		
	P-source		15 A		
	Main		30 A		
	ABS Motor		20 A	AN400A/ZA only	
	ABS Valve		15 A	AN400A/ZA only	

WATTAGE

Unit: W

ITEM		STANDARD/SPECIFICATION	
		E-02, 19, 24, 51	E-03, 28, 33
Headlight	HI	60	60×2
	LO	55×2	55×2
Parking/position light		5×2	←
Brake/Tail light		21/5×2	←
Turn signal light		21×2 (Front), 21×2 (Rear)	27/8×2 (Front), 21×2 (Rear)
License plate light		5	←
Speedometer/tachometer light		LED	←
Engine coolant temp. gauge light		LED	←
Fuel level gauge light		LED	←
Immobilizer indicator light		LED	←
Oil change indicator		LCD	←
FI indicator light		LED	←
Brake-lock indicator light		LED	←
High beam indicator light		LED	←
Turn signal indicator light		LED×2	←
Trunk light		5	←
ABS indicator light (AN400A/ZA only)		LED	←

BRAKE + WHEEL

Unit: mm (in)

ITEM	STANDARD		LIMIT
Brake disc thickness	Front	4.5 ± 0.2 (0.18 ± 0.008)	4.0 (0.16)
	Rear	5.0 ± 0.2 (0.20 ± 0.008)	4.5 (0.18)
Brake disc runout	—		0.30 (0.012)
Master cylinder bore	Front & Rear	12.700 – 12.743 (0.5000 – 0.5017)	—
Master cylinder piston diameter	Front & Rear	12.650 – 12.684 (0.4980 – 0.4994)	—
Brake caliper cylinder bore	Front	25.400 – 25.450 (1.0000 – 1.0197)	—
	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	Front	—	2.0 (0.08)
	Rear	—	2.0 (0.08)
Wheel axle runout	Front	—	0.25 (0.010)
	Rear	—	0.25 (0.010)
Wheel rim size	Front	14 M/C×MT3.00	—
	Rear	13 M/C×MT4.00	—

SUSPENSION

Unit: mm (in)

ITEM	STANDARD	LIMIT
Front fork stroke	110 (4.33)	—
Front fork spring free length	347.6 (13.69)	340 (13.4)
Front fork oil type	SUZUKI FORK OIL G-10 or an equivalent fork oil	—
Front fork oil capacity (each leg)	301 ml (10.17/10.60 US/Imp oz)	—
Front fork oil level (without spring, outer tube fully compressed)	87 (3.43)	—
Front fork inner tube O.D.	41 (1.61)	—
Rear wheel travel	100 (3.94)	—
Rear shock absorber spring adjuster	3rd position	—

TIRE

ITEM		STANDARD		LIMIT
Cold inflation tire pressure	Solo riding	Front	175 kPa (1.75 kgf/cm^2, 25 psi)	—
		Rear	200 kPa (2.00 kgf/cm^2, 29 psi)	—
	Dual riding	Front	175 kPa (1.75 kgf/cm^2, 25 psi)	—
		Rear	250 kPa (2.50 kgf/cm^2, 36 psi)	—
Tire size		Front	120/80-14M/C 58S	—
		Rear	150/70-13M/C 64S	—
Tire type		Front	BRIDGESTONE HOOP B03G	—
		Rear	BRIDGESTONE HOOP B02G	—
Tire tread depth (Recommended depth)		Front	—	1.6 mm (0.06 in)
		Rear	—	2.0 mm (0.08 in)

TIRE

ITEM	SPECIFICATION		NOTE
Fuel type	Use only unloaded gasoline of at least 87 pump octane or 91 octane (R/2 + M/2) 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, 28, 33
	Gasoline used should be graded 91 octane or higher. An unloaded gasoline type is recommended.		Others
Fuel tank capacity	Including reserve	13.5 L (3.6/3.0 US/Imp gal)	
	Reserve	4.0 L (3.17/2.64 US/Imp gal)	
Engine oil and final gear oil type	SAE 10W-40, API SF/SG or SH/SJ with JASO MA		
Engine oil capacity	Oil change	1 200 ml (1.3/1.0 US/Imp qt)	
	Filter change	1 300 ml (1.4/1.1 US/Imp qt)	
	Overhaul	1 500 ml (1.6/1.3 US/Imp qt)	
Final gear oil capacity	Oil change	180 ml (6.1/6.3 US/Imp oz)	
	Overhaul	190 ml (6.4/6.7 US/Imp oz)	

TIGHTENING TORQUE LIST

ENGINE

ITEM		N·m	kgf-m	lbf-ft
Cam chain tensioner bolt		23	2.3	16.5
Cam chain guide No.1 bolt		23	2.3	16.5
Camshaft journal holder bolt		10	1.0	7.0
Engine oil drain plug		23	2.3	16.5
Final gear oil drain plug	M8	12	1.2	8.5
Final gear oil level bolt	M10	16	1.6	11.5
Final gear oil filter bolt	M16	23	2.3	16.5
Starter clutch bolt		26	2.6	19.0
Generator stator bolt		11	1.1	8.0
CKP sensor bolt		6	0.6	4.5
Crankcase bolt	M8	22	2.2	16.0
	M6	11	1.1	8.0
Balancer drive gear nut		150	15.0	108.5
Balancer driven gear nut		50	5.0	36.0
Oil pump mounting bolt		10	1.0	7.0
Generator rotor nut		160	16.0	115.5
Final gear cover bolt		22	2.2	16.0
Clutch housing nut		85	8.5	61.5
Clutch shoe nut		105	10.5	76.0
Fixed drive face nut		105	10.5	76.0
Inner clutch cover bolt		11	1.1	8.0
Generator cover bolt		11	1.1	8.0
Oil filter cap bolt		10	1.0	7.0
Cylinder head bolt	L130	25	2.5	18.0
	L190	25→42	2.5→4.2	18.0→30.5
Cam chain tension adjuster mounting bolt		10	1.0	7.0
Cam chain tension adjuster cap bolt		23	2.3	16.5
Cylinder head cover bolt		14	1.4	10.0
Starter motor mounting bolt		7	0.7	5.0
Starter motor lead wire bolt		3	0.3	2.0
Starter motor housing bolt		4	0.4	3.0
Spark plug		11	1.1	8.0
Oil sump filter cover bolt		10	1.0	7.0
Oil gallery plug (cylinder head)		10	1.0	7.0
Main gallery plug	M8	12	1.2	8.5
	M10	18	1.8	13.0
	M14	23	2.3	16.5
TDC inspection plug		23	2.3	16.5
Water jacket plug		40	4.0	29.0
Exhaust pipe bolt		23	2.3	16.5
Muffler connecting bolt		23	2.3	16.5
Muffler mounting bolt		23	2.3	16.5

COOLING SYSTEM

ITEM	N·m	kgf-m	lbf-ft
Cooling fan mounting bolt	7	0.7	5.0
Radiator mounting bolt	10	1.0	7.0
Cooling fan thermo-switch	17	1.7	12.5
ECT sensor	12	1.2	8.5
Thermostat case bolt	10	1.0	7.0
Thermostat case air bleeder bolt	5.5	0.55	4.3
Water pump mounting bolt	10	1.0	7.0

FI SYSTEM AND INTAKE AIR SYSTEM

ITEM	N·m	kgf-m	lbf-ft
Fuel cut valve bolt	3.5	0.35	2.5
Fuel pump mounting bolt	4.5	0.45	3.3
Fuel tank mounting bolt	10	1.0	7.0
Fuel hose bolt	10	1.0	7.0
IAT sensor mounting screw	3.5	0.35	2.5
Speed sensor bolt	10	1.0	7.0

CHASSIS

ITEM	N·m	kgf-m	lbf-ft
Pillion rider handle bolt	23	2.3	16.5
Front axle	65	6.5	47.0
Front axle pinch bolt	23	2.3	16.5
Front brake caliper pad pin	18	1.8	13.0
Front brake caliper mounting bolt	35	3.5	25.5
Front brake caliper bracket pin bolt	18	1.8	13.0
Front brake caliper air bleeder valve	6	0.6	4.5
Front brake disc bolt	23	2.3	16.5
Brake hose union bolt	23	2.3	16.5
Master cylinder mounting bolt	10	1.0	7.0
Handlebar clamp bolt	23	2.3	16.5
Front fork cylinder bolt	30	3.0	21.5
Front fork clamp bolt	23	2.3	16.5
Front fork cap bolt	45	4.5	32.5
Steering stem nut	30 N·m (30 kgf-m, 21.5 lbt-ft) →turn clockwise 1/4 – 1/2		
Steering stem lock-nut	30	3.0	21.5
Handlebar holder set bolt	23	2.3	16.5
Handlebar holder clamp bolt	55	5.5	40.0
Rear axle nut	120	12.0	87.0
Rear brake caliper mounting bolt	23	2.3	16.5
Rear brake caliper pad pin	18	1.8	13.0
Rear brake disc bolt	35	3.5	25.5
Brake-lock housing bolt	23	2.3	16.5
Brake-lock cable lock-nut	16	1.6	11.5
Crankcase bracket mounting nut	85	8.5	61.5
Crankcase bracket rubber damper bolt	85	8.5	61.5
Engine mounting nut	93	9.3	67.5
Rear shock absorber mounting bolt	50	5.0	36.0
Cushion lever mounting nut	80	8.0	58.0
Rear cushion rod nut	50	5.0	36.0
Swingarm bolt	50	5.0	36.0
Center stand pivot bolt	50	5.0	36.0
Brake lever pivot bolt	1	0.1	0.5
Brake lever pivot lock-nut	6	0.6	4.5
Brake pipe flare nut (AN400A/ZA)	16	1.6	11.5
Wheel speed sensor rotor bolt (Front & Rear) (AN400A/ZA)	6	0.6	4.5