SERVICE INFORMATION

GENERAL

- · This section covers service of the cylinder head, valves and camshaft.
- The camshaft services can be done with the engine installed in the frame. The cylinder head service requires engine removal.
- When disassembling, mark and store the disassembled parts to ensure that they are reinstalled in their original locations.
- Clean all disassembled parts with cleaning solvent and dry them by blowing them off with compressed air before inspection.
- Camshaft lubricating oil is fed through oil passages in the cylinder head. Clean the oil passages before assembling cylinder head.
- · Be careful not to damage the mating surfaces when removing the cylinder head cover and cylinder head.

SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			1,098 kPa (11.2 kgf/cm², 159 psi) at 350 rpm	to PLAN
		IN	$0.16 \pm 0.03 \ (0.006 \pm 0.001)$	_
		EX	$0.30 \pm 0.03 (0.012 \pm 0.001)$	
Camshaft	Cam lobe height	IN	37.02 - 37.10 (1.457 - 1.461)	37.00 (1.457)
		EX	36.66 - 36.74 (1.443 - 1.446)	36.64 (1.443)
	Runout			0.05 (0.002)
	Oil clearance		0.020 - 0.062 (0.0008 - 0.0024)	0.10 (0.004)
Valve lifter	Valve lifter O.D.		25.978 - 25.993 (1.0228 - 1.0233)	25.97 (1.022)
	Valve lifter bore I.D.		26.010 - 26.026 (1.0240 - 1.0246)	26.04 (1.025)
Valve, valve guide	Valve stem O.D.	IN	3.975 - 3.990 (0.1565 - 0.1571)	3.965 (0.1561)
		EX	3.965 - 3.980 (0.1561 - 0.1567)	3.955 (0.1557)
	Valve guide I.D.	IN/EX	4.000 - 4.012 (0.1575 - 0.1580)	4.04 (0.159)
	Stem-to-guide clearance	IN	0.010 - 0.037 (0.0004 - 0.0015)	0.075 (0.0030)
		EX	0.020 - 0.047 (0.0008 - 0.0019)	0.085 (0.0033)
	Valve guide projection above cylinder head	IN	16.1 - 16.4 (0.63 - 0.65)	
		EX	15.5 - 15.8 (0.61 - 0.62)	The second second
	Valve seat width	IN	0.90 - 1.10 (0.035 - 0.043)	1.5 (0.06)
		EX	0.90 - 1.10 (0.035 - 0.043)	1.5 (0.06)
Valve spring free length	IN		39.5 (1.56)	38.7 (1.52)
	EX		39.5 (1.56)	38.7 (1.52)
Cylinder head warpage			_	0.10 (0.004)

TORQUE VALUES

Cylinder head mounting bolt/washer

Camshaft holder flange bolt Cylinder head sealing bolt Cylinder head cover bolt Breather plate flange bolt

PAIR reed valve cover bolt
Throttle body insulator socket bolt
Cam sprocket flange bolt
Cam chain tensioner pivot bolt
Camshaft position sensor rotor bolt
Cam chain tensioner lifter mounting
socket bolt
Cam chain guide torx bolt
Exhaust pipe stud bolt

51 N·m (5.2 kgf·m, 38 lbf·ft)

12 N·m (1.2 kgf·m, 9 lbf·ft) 27 N·m (2.8 kgf·m, 20 lbf·ft) 9.8 N·m (1.0 kgf·m, 7 lbf·ft) 12 N·m (1.2 kgf·m, 9 lbf·ft)

12 N·m (1.2 kgf·m, 9 lbf·ft) 12 N·m (1.2 kgf·m, 9 lbf·ft) 20 N·m (2.0 kgf·m, 14 lbf·ft) 9.8 N·m (1.0 kgf·m, 7 lbf·ft) 12 N·m (1.2 kgf·m, 9 lbf·ft) 9.8 N·m (1.0 kgf·m, 7 lbf·ft)

12 N·m (1.2 kgf·m, 9 lbf·ft) See page 1-15 16 N·m (1.6 kgf·m, 12 lbf·ft) Apply molybdenum disulfide oil to the threads and seating surface Apply oil to the threads

Apply a locking agent to the threads CT bolt

Apply a locking agent to the threads

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Spark plug