

Service data

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Unit: mm (in)

Item	Specification
Lubrication	
Specified engine oil	Repsol 4T oil-stroke motorcycle oil SAE 10W-30 or equivalent
Engine oil capacity after draining after oil filter change after disassembly	0.41 liter (0.43 US qt, 0.36 Imp qt) 0.44 liter (0.46 US qt, 0.39 Imp qt) 0.60 liter (0.63 US qt, 0.53 Imp qt)
Specified transmission oil	REPSOL MOTO TRANSMISSION (75W) ELF HTX740 (75W)
Transmission oil capacity after draining after disassembly	0.54 liter (0.57 US qt, 0.48 Imp qt) 0.57 liter (0.60 US qt, 0.50 Imp qt)
Fuel System	
Throttle body identification No.	QOPMA
Throttle grip free play	3 mm.
Engine idle speed	1,800 \pm 100 min-1 (rpm)
Fuel pressure	314 - 382 kPa (3.2 - 3.9 kgf/cm ²)
Fuel pump flow at 12 V	125 cm ³ minimum/10 seconds
Injector resistance	11.1 – 12.3 Ω (20 °C/68 °F)
Cooling System	
Recommended coolant	50/50 mixture coolant and distilled water
Radiator cap relief pressure	108 kPa (1.1 kgf/cm ²)

Item	Standard	Service limit
Cylinder Head/Valves		
Cylinder compression	1300 kPa (13.2 kgf/cm ² , 189 psi)	-
Cylinder head warpage	-	0.05 (0.002)
Valve stem O.D.	IN 0.12 \pm 0.03 (0.005 \pm 0.001) EX 0.30 \pm 0.03 (0.012 \pm 0.001)	- -
	IX 4.475 - 4.490 (0.1762 - 0.1768) EX 4.465 - 4.480 (0.1758 - 0.1764)	4.470 (0.1760) 4.460 (0.1756)
Valve guide I.D.	IN/EX 4.500 - 4.512 (0.1772 - 0.1776)	4.552 (0.1792)
Valve stem-to-guide clearance	IN 0.010 - 0.037 (0.0004 - 0.0015) EX 0.020 - 0.047 (0.0008 - 0.0019)	- -
Valve guide projection above cylinder head	IN 8.0 - 8.3 (0.31 - 0.33) EX 8.2 - 8.5 (0.32 - 0.33)	- -
Valve spring free length		
	Inner 25.41 (1.000) Outer 28.32 (1.115)	24.9 (0.98) 27.6 (1.09)
Rocker arm I.D.	10.000 - 10.015 (0.3937 - 0.3943)	10.051 (0.3957)
Rocker arm shaft O.D.	9.972 - 9.987 (0.3926 - 0.3932)	9.925 (0.3907)
Rocker arm-to-shaft clearance	0.013 - 0.043 (0.0005 - 0.0017)	0.11 (0.04)
Cam lobe height	AD 32.011 - 33.051 (1.2603 - 1.3012) ES 32.855 - 32.935 (1.2935 - 1.2967)	31.871 (1.2548) 32.748 (1.2893)