



CHAPTER 2. SPECIFICATIONS

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SPECIFICATIONS

GENERAL SPECIFICATIONS

Item	Standard	Limit
Model code	YZF-R6L: 5GV1 (U.S.A.) YZF-R6CL: 5GV2 (California) YZF-R6L: 5GV3 (Canada)	
Dimensions		
Overall length	2025 mm (79.7 in)	...
Overall width	690 mm (27.2 in)	...
Overall height	1105 mm (43.5 in)	...
Seat height	820 mm (32.3 in)	...
Wheelbase	1380 mm (54.3 in)	...
	1385 mm (54.5 in) (California)	...
Minimum ground clearance	135 mm (5.3 in)	...
Minimum turning radius	3400 mm (133.9 in)	...
Weight		
Wet (with oil and a full fuel tank)	188 kg (415 lb)	...
	189 kg (417 lb) (California)	...
Dry (without oil and fuel)	169 kg (373 lb)	...
	170 kg (375 lb) (California)	...
Maximum load (total of cargo, rider, passenger, and accessories)	375 kg (827 lb)	...



ENGINE SPECIFICATIONS

Item	Standard	Limit
Engine		
Engine type	Liquid-cooled, 4-stroke, DOHC	...
Displacement	600 cm ³ (36.61 cu.in)	...
Cylinder arrangement	Forward-inclined parallel 4-cylinder	...
Bore × stroke	65.5 × 44.5 mm (2.58 × 1.75 in)	...
Compression ratio	12.4 : 1	...
Engine idling speed	1,250 ~ 1,350 r/min	...
Vacuum pressure at engine idling speed	24.0 kPa (180 mmHg, 7.0866 in Hg)	...
Standard compression pressure (at sea level)	1550 kPa (15.5 kg/cm ² , 224.75 psi) at 400 r/min	...
Fuel		
Recommended fuel	Regular gasoline	...
Fuel tank capacity		
Total (including reserve)	17 L (3.74 Imp gal, 4.49 US gal)	...
Reserve only	3.5 L (0.77 Imp gal, 0.93 US gal)	...
Engine oil		
Lubrication system	Wet sump	...
Recommended oil		...
A : Yamalube 4 (10 W 30) or SAE 10 W 30 type SE motor oil (–10°C (10°F) or higher) B : Yamalube 4 (20 W 40) or SAE 20 W 40 type SE motor oil (5°C (40°F) or higher)		
Quantity		
Total amount	3.5 L (3.08 Imp qt, 3.70 US qt)	...
Without oil filter cartridge replacement	2.5 L (2.20 Imp qt, 2.64 US qt)	...
With oil filter cartridge replacement	2.7 L (2.38 Imp qt, 2.85 US qt)	...
Oil pressure (hot)	80 kPa (0.8 kg/cm ² , 11.6 psi) at 1300 r/min	...
Relief valve opening pressure	450 ~ 550 kPa (4.5 ~ 5.5 kg/cm ² , 65.3 ~ 79.8 psi)	...



Item	Standard	Limit
Oil filter		
Oil filter type	Cartridge (paper)	...
Bypass valve opening pressure	80 ~ 120 kPa (0.8 ~ 1.2 kg/cm ² , 11.6 ~ 17.4 psi)	...
Oil pump		
Oil pump type	Trochoidal	...
Inner-rotor-to-outer-rotor-tip clearance	0.03 ~ 0.09 mm (0.0012 ~ 0.0035 in)	0.15 mm (0.0059 in)
Outer-rotor-to-oil-pump-housing clearance	0.03 ~ 0.08 mm (0.0012 ~ 0.0031 in)	0.15 mm (0.0059 in)
Cooling system		
Radiator capacity	2.15 L (2.27 US qt)	
Radiator cap opening pressure	110 ~ 140 kPa (1.10 ~ 1.40 kg/cm ² , 16.0 ~ 20.3 psi)	...
Radiator core		
Width	320 mm (12.6 in)	...
Height	258 mm (10.2 in)	...
Depth	24 mm (0.94 in)	...
Coolant reservoir		
Capacity	0.44 L (0.47 US qt)	...
Water pump		
Water pump type	Single-suction centrifugal pump	...
Reduction ratio	86/44 × 31/31 (1.955)	...
Starting system type	Electric starter	
Spark plugs		
Model (manufacturer) × quantity	CR10EK/NGK × 4	...
	CR9EK/NGK × 4 (California)	...
Spark plug gap	0.6 ~ 0.7 mm (0.02 ~ 0.03 in)	...
Cylinder head		
Max. warpage	...	0.05 mm (0.002 in)



Item	Standard	Limit
Camshafts		
Drive system	Chain drive (right)	...
Camshaft cap inside diameter	23.000 ~ 23.021 mm (0.9055 ~ 0.9063 in)	...
Camshaft journal diameter	22.967 ~ 22.980 mm (0.9042 ~ 0.9047 in)	...
Camshaft-journal-to-camshaftcap clearance	0.020 ~ 0.054 mm (0.0008 ~ 0.0021 in)	0.08 mm (0.0031 in)
Intake camshaft lobe dimensions		
Measurement A	33.05 ~ 33.15 mm (1.3012 ~ 1.3051 in)	33.0 mm (1.3 in)
Measurement B	25.14 ~ 25.24 mm (0.9898 ~ 0.9937 in)	25.09 mm (0.99 in)
Measurement C	7.81 ~ 8.01 mm (0.3075 ~ 0.3154 in)	...
Exhaust camshaft lobe dimensions		
Measurement A	32.55 ~ 32.65 mm (1.2815 ~ 1.2854 in)	32.50 mm (1.28 in)
Measurement B	25.07 ~ 25.17 mm (0.9870 ~ 0.9909 in)	25.02 mm (0.99 in)
Measurement C	7.38 ~ 7.58 mm (0.2906 ~ 0.2984 in)	...
Max. camshaft runout	...	0.06 mm (0.0024 in)