

# THE ENGINE PROPER

## MAIN SERVICE SPECIFICATIONS

Item		Specified value										Remarks
Engine type		CB-23					CB-61				CB-80	
Idling speed rpm		*MT 800 ± 50 **AT 850 ± 50					*800 ± 50				950 ± 50	
CO concentration %	General specifications											
	ECE & EEC Specifications	0.5 - 1.5					0.5 - 1.5				0.5 - 1.5	
	Australian, Swedish and Swiss specifications											
Compression pressure kg/cm <sup>2</sup> -rpm (psi-rpm)	Specified value	12.5/350 (177.8/350)					12.0/350 (170.7/350)				10.5/300 (149.3/300)	
	Allowable limit	10.5/350 (149.4/350)					10.5/350 (149.4/350)				8.5/300 (121/300)	
	Difference between cylinders	Within 1.5 (21.3)					Within 1.5 (21.3)				Within 1.5 (21.3)	
Valve clearance (Hot) mm (inch)	Intake	0.20 (0.0079)					0.25 (0.0098)				0.27 (0.0101)	
	Exhaust	0.20 (0.0079)					0.25 (0.0098)				0.32 (0.0126)	
Lubrication oil capacity ℓ	Total capacity	3.2					3.2				3.3	
	Oil pan capacity (F level)	2.7					2.7				2.7	
	Oil pan capacity (L level)	1.7					1.7				1.7	
Float level mm (inch)		22 (0.87)					22 (0.87)				—	Measured from top surface of body
Radiator cap valve opening pressure kg/cm <sup>2</sup> (psi)	Specified value	0.75 - 1.05 (10.7 - 14.9)					0.75 - 1.05 (10.7 - 14.9)				0.75 - 1.05 (10.7 - 14.9)	
	Allowable limit	0.6 (8.5)					0.6 (8.5)				0.6 (8.5)	
Radiator leak check pressure kg/cm <sup>2</sup> (psi)		1.2 (17)					1.2 (17)				1.2 (17)	
V-belt deflection mm/kg (inch/lb)		5-7/10 (0.20-0.38/22.1)					5-7/10 (0.20-0.28/22.1)				7.5-8.5/8 (0.30-0.33/17.6)	
Cooling water capacity ℓ	Total capacity (A/T)	3.5 (3.9)					3.9				4.0	Including 0.6 for reserve tank
	Reserve tank capacity	0.6					0.6				0.6	
Anti-freezing solution filling capacity ℓ	-10°C (23%)	0.66 (M/T), 0.76 (A/T) [0.14]					0.75 [0.14]				0.77 [0.14]	[ ] Filling amount for reserve tank
	-20°C (35%)	1.00 (M/T), 1.14 (A/T) [0.21]					1.14 [0.21]				1.14 [0.21]	
	-35°C (50%)	1.44 (M/T), 1.64 (A/T) [0.30]					1.64 [0.30]				1.68 [0.30]	
Distributor	Dwell angle	58° - 66°					58° - 66°				—	
	Heel gap mm (inch)	0.4 - 0.5 (0.016 - 0.020)					0.4 - 0.5 (0.016 - 0.020)				—	
Spark plug	Manufacturer	DENSO		NGK		BOSCH		CHAMPION		DENSO		
	For ECE & EEC	W16EXR-U	BP5EA-L	BP5ET	WR8DC	RN-11YC	W16EXR-U W20EXR-U	BP5EY BP5EY	WR8DC WR7DC	RN-9YC RN-11YC	W20ET-L W22ET-L	
	Except for ECE & EEC	W16EX-U	BP5EA-L	BP5EY	WR8DC (X,Y)	N-11YC	W16EX-U W20EX-U	BP5EY BP6EY	WR8DC (X,Y) WR7DC (X,Y)	N-9YC N-11YC	W20ET-L W22ET-L	
	Spark plug gap mm (inch)	0.7 - 0.8 (0.028 - 0.031)		0.8 - 0.9 (0.031 - 0.036)		0.7 - 0.8 (0.028 - 0.031)		0.7 - 0.8 (0.028 - 0.031)		0.7 - 0.8 (0.028 - 0.031)		0.9 - 1.0 (0.035 - 0.039)
Ignition timing	Manual transmission	BTDC 5° ± 2° 800 ± 50 rpm					BTDC 10° ± 2° 800 ± 50 rpm				BTDC 10° 950 ± 50 rpm	
	Automatic transmission	BTDC 5° ± 2° 850 ± 50 rpm					—				—	

\*1000 rpm ± 50 for day-light specification vehicles (CB-23 and CB-61 only)

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