

Chapter 2 Part B:

General engine overhaul procedures

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Degrees of difficulty

Easy, suitable for novice with little experience



Fairly easy, suitable for beginner with some experience



Fairly difficult, suitable for competent DIY mechanic



Difficult, suitable for experienced DIY mechanic



Very difficult, suitable for expert DIY or professional



2B

Specifications

General

Cylinder compression pressure (all engines)	10 to 11 bars
Oil pressure (all engines)	
At idle	0.5 to 2.0 bars
Running (for example, at 4000 rpm)	4 bars or above (typically)
Cylinder head warpage limit	
Except M40 engine	0.10 mm
M40 engine	0.03 mm
Minimum cylinder head thickness (do not resurface the head to a thickness less than listed)	
M10 and M30 engines	128.6 mm
M20 engines	124.7 mm
M40 engine	140.55 mm

Valves

Valve stem diameter (standard)	
M10 and M30 engines	8.0 mm
M20 engine	7.0 mm
M40 engine	
Intake	6.975 mm
Exhaust	6.960 mm
Minimum valve margin width	
Intake	1.191 mm
Exhaust	1.98 mm
Valve stem maximum lateral movement (see text)	0.787 mm
Valve face angle	
Intake	45°
Exhaust	45°

Engine Overhaul Procedures General Information

RD Boyd



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