

TORQUE WRENCH SETTINGS	Nm	lbf ft
ENGINE—V8 Petrol engine		
Air intake adaptor to carbs	24	17
Alternator mounting bracket to cylinder head	34	25
Alternator to mounting bracket	24	17
Alternator to adjusting link	24	17
Chainwheel to camshaft	54–61	40–45
Connecting rod bolt	47–54	35–40
Clutch attachment to flywheel	24–30	18–22
Cylinder head:		
Outer row	54–61	40–45*
Centre row	88–95	65–70*
Inner row	88–95	65–70*
Distributor clamp bolt	19–22	14–16
Exhaust manifold to cylinder heads	19–22	14–16
Fan to viscous unit	26–32	19–24
Flexible drive plate to crankshaft	74–81	55–60
Flywheel to crankshaft	74–81	55–60
Inlet manifold to cylinder heads	47–54	35–40
Lifting eye to cylinder heads	24	17
Main bearing cap bolts	68–75	50–55**
Main bearing cap rear bolts	88–95	65–70**
Manifold gasket clamp bolt	13.5–20	10–15
Oil pump cover to timing cover	11–14	8–10
Oil plug	24–30	18–22
Oil relief valve plug	40–47	30–35
Oil sump drain plug	40.6–47	30–35
Oil sump to cylinder block	8–11	5–8
Oil sump rear to cylinder block	17.6–20.3	13–15
Rocker cover to cylinder head	7	5
Rocker shaft bracket to cylinder head	34–40	25–30
Spark plug	13.8–16.2	10–12
Starter motor attachment	40.6–47.4	30–35
Damper to crankshaft	257–285	190–210
Timing cover to cylinder block	24–30	18–22***
Viscous unit to water pump hub	36–40	27–30
Water pump pulley to water pump hub	23	17***
Water pump timing cover to cylinder block	24–30	18–22
Water jacket to plenum chamber	10–14	8–10***
Plenum chamber to ram housing	20–24	15–18
Ram housing to intake manifold	20–24	15–18
Thermostat housing to intake manifold	24–30	18–22

Lubricants/sealants have been specified in certain applications for assembly purposes.

* These bolts must have threads coated with Loctite 572 prior to assembly. For this purpose it is necessary to use an approved dispenser to apply the sealant/lubricant to the first three threads of the bolts.

** These bolts must have threads coated in lubricant EXP16A (Marston Lubricants) prior to assembly.

*** These bolts must have threads coated in sealant Loctite 572 prior to assembly.

It is essential that all bolts are securely tightened and it is imperative that the correct torque is adhered to.

06

TORQUE WRENCH SETTINGS

Charts below give torque settings for all screws and bolts used except for those that are specified otherwise

SIZE	METRIC		SIZE	UNC		UNF	
	Nm	lbf ft		Nm	lbf ft	Nm	lbf ft
M5	3.7-5.2	5-7	¼	6.8-9.5	5-7	8.1-12.2	6-9
M6	5.2-7.4	7-10	⅜	20.3-27.1	15-20	20.3-27.1	15-20
M8	16.2-20.7	22-28	½	35.2-43.4	26-32	35.2-43.4	26-32
M10	29.5-36.9	40-50	⅝	67.8-88.1	50-65	67.8-88.1	50-65
M12	59.0-73.8	80-100	¾	81.3-101.7	60-75	81.3-101.7	60-75
M14	66.4-88.5	90-120	1	122.0-149.1	90-110	122.0-149.1	90-110
M16	118.0-147.5	160-200					