

ENGINE (4-cyl)		FlLb	KgM	NM
Air-pump mounting screws	if fitted	18	2.5	24
Big-end bolts	early	35 to 40	4.8 to 5.5	48 to 54
Big-end bolts oiled thread	12-sided	33	4.5	45
Camshaft nut	All models	60 to 70	8.3 to 9.68	81 to 95
Carburettor stud nuts	18G/18GA	2	0.28	3
Carburettor stud nuts	All models	15	2.1	20
Clutch to flywheel	All models	25 to 30	3.4 to 4.1	34 to 41
Crankshaft pulley bolt	All models	70	9.6	95
Cylinder head nuts	18G/18GA	45 to 50	6.2 to 6.9	61 to 68
Cylinder side cover screws	18G/18GA	2	0.28	3
Cylinder side cover screws deep cover	18G/18GA	5	0.7	7
Distributor clamp bolt (bolt trapped)	18G/18GA	2 to 2.5	0.3 to 0.35	3 to 4
Distributor clamp bolt (nut trapped)	18G/18GA	4.16	0.57	5
Fan blade fixing screws	18G/18GA	7.3 to 9.3	1.0 to 1.3	9 to 12
Flywheel set screws	18G/18GA	40	5.5	54
Front plate 5/16 inch screws	All models	20	2.8	27
Gudgeon pin clamp bolts	18G/18GA	25	3.4	34
Main bearing nuts	All models	70	9.7	95
Manifold nuts	All models	15 to 16	2.1 to 2.2	20 to 22
Oil filter centre bolt	18G/18GA	15	2.1	20
Oil pipe banjo	All models	37 max	5.1 max	50 max
Oil pressure relief valve domed nut	Pre-78	43	5.9	58
Oil pressure relief valve domed nut	78-on	40	5.5	54
Oil pump to crankcase	All models	14	1.9	19
Rear engine mounting bolt	All models	38 to 40	5.22 to 5.53	52 to 54
Rear plate 3/8 inch screws	All models	30	4.1	41
Rear plate 5/16 inch screws	All models	20	2.8	27
Rocker bracket nuts	All models	25	3.4	34
Rocker cover nuts	18G/18GA	4	0.56	5
Spark plugs	All models	18	2.5	24
Sump to crankcase	All models	6	0.8	8
Timing cover 1/4 inch screws	18G/18GA	6	0.8	8
Timing cover 5/16 inch screws	18G/18GA	14	1.9	19
Water outlet elbow nuts	18G/18GA	8	1.1	11
Water pump to crankcase	18G/GA	17	2.4	23
Water pump to crankcase	Later models	25	3.5	34

Note that the WSM quotes 17flb for 18G and GA i.e. early cars whereas Haynes quotes early models as 25 ft lb and late models as 17 ft lb i.e. the other way round.

ENGINE (Factory V8)		FlLb	KgM	NM
Carburettor adapter nuts		18	2.49	24
Connecting rod cap nuts		33	4.56	45
Crankshaft pulley bolt		150	20.73	203
Cylinder head bolts		68	9.4	92
Distributor drive gear to camshaft bolt		43	5.94	58
Exhaust manifold bolts		13	1.8	18
Flywheel bolts		55	7.6	75
Induction manifold bolts		28	3.87	38
Induction manifold gasket clamp bolt		13	1.8	18
Main bearing cap bolts: Nos. 1 to 4		53	7.32	72
Rear		68	9.4	92
Oil pressure relief valve plug		33	4.56	45
Oil pump cover bolts				
WARNING! I got mine up to about 10 and they didn't seem to want to go higher. Bearing in mind they are going into the alloy front cover I stopped. If you look at the 'Other V8' figures there are two - 9flb and for Suffix B 3flb. 3 seems a bit low for oil under pressure even with Loctite, but 9 is definitely safer than 13.		13	1.8	18
Rocker shaft to cylinder head bolts		28	3.87	38
Timing chain cover bolts		23	3.18	31
Water pump bolts: 1/4 U.N.C.		7	0.97	9
5/16 U.N.C.		17	2.35	23

ENGINE (Other V8)		FlLb	KgM	NM
Camshaft gear bolt		37	5.12	50
Camshaft thrust plate bolts - If fitted		18	2.49	25
Connecting rod nuts:		37	5.12	50
Connecting rod bolts: Stage 1		15	2.07	20
Connecting rod bolts: Stage 2 Further 80 °				
Coolant pump/timing cover to cylinder block		16	2.21	22
Crankshaft pulley bolt		200	28	270
Cylinder head bolts - Engine numbers with suffix B: + */**** Stage 1		15	2.07	20
Stage 2 Further 90 °				
Stage 3 Further 90 °				
Cylinder head bolts - Engine numbers without suffix B: + * Bolts 11 to 14 - Outer row		44	6.09	60
Bolts 2, 4, 6, 8 and 10 - Centre row		66	9.13	90
Bolts 1, 3, 5, 7 and 9 - Inner row		66	9.13	90
Distributor clamp nut		15	2.07	20
Drive plate and clamp ring bolts		33	4.56	45
Drive plate hub aligner Allen bolts		63	8.71	85
Flywheel bolts		58	8.02	78
Lifting eye to cylinder head bolts		30	4.15	40
Main bearing cap bolts + * Initial torque - all bolts:		10	1.38	14
Final torque: Numbers 1 to 4 main bearing cap bolts:		52	7.19	70
Final torque: Rear main bearing cap bolts:		66	9.13	90
Oil pick-up pipe bolts		8	1.11	10
Oil pressure relief valve plug - Engine numbers without suffix B		33	4.56	45
Oil pressure switch		11	1.52	15
Oil pump cover plate bolt - if fitted **		6	0.83	8
Oil pump cover plate screws - Engine numbers with suffix B **		3	0.41	4
Oil pump cover to timing cover - Engine numbers without suffix B		9	1.24	12

		FlLb	KgM	NM
Oil strainer bolts		7	0.97	10
Oil strainer nut - Engine numbers with suffix B		16	2.21	22
Oil sump bolts +		17	2.35	23
Oil sump drain plug		33	4.56	45
Rocker cover bolts: + **** Stage 1		2.5	0.35	3
Stage 2		6	0.83	8
Rocker shaft to cylinder head bolts		28	3.87	38
Secondary air injection adapters - If fitted ***		24	3.32	33
Spark plug		15	2.07	20
Timing cover to cylinder block bolts **		16	2.21	22

* Lightly oil threads prior to assembly.

** Coat threads with sealant Part number STC 50552 prior to assembly.

*** New adapters must be fitted

**** New bolts must be fitted

GEARBOX		FlLb	KgM	NM
Gearbox remote control cover to tunnel	3-synch	7.5 to 9.5	1.1 to 1.3	11 to 13
Drive flange nut overdrive	Type D	100 to 130	13.8 to 18.0	136 to 176
Drive flange nut overdrive	Type LH	55 to 60	7.6 to 8.3	75 to 81
Drive flange nut without overdrive	manual	150	20.7	203
Mounting to gearbox case	manual	15 to 20	2.1 to 2.8	20 to 27
Cam bracket screws	automatic	20 to 40	2.77 to 5.53	27 to 54
Centre support bolts	automatic	10 to 18	1.38 to 2.49	14 to 24
Converter to drive plate bolts	automatic	25 to 30	3.46 to 4.15	34 to 41
Downshift cable adaptor bolts	automatic	8 to 9	1.11 to 1.24	11 to 12
Drain plug	automatic	8 to 10	1.11 to 1.38	11 to 14
Drive flange nut	automatic	55 to 60	7.6 to 8.3	75 to 81
Driving flange nut	automatic	55 to 60	7.6 to 8.3	75 to 81
Extension housing to transmission case	automatic	8 to 13	1.1 to 1.8	11 to 18
Filler tube connector sleeve to transmission case	automatic	20 to 30	2.77 to 4.15	27 to 41
Filler tube to connector sleeve nut	automatic	17 to 18	2.35 to 2.49	23 to 24
Front brake band adj. screw locknut	automatic	15 to 20	2.1 to 2.8	20 to 27
Front servo adjusting screw locknut	automatic	15 to 20	2.07 to 2.77	20 to 27
Front servo bolts	automatic	8 to 13	1.11 to 1.80	11 to 18
Governor to counterweight screws	automatic	4 to 5	0.55 to 0.69	5 to 7.4
Governor to cover plate screws	automatic	20 to 48	2.77 to 6.64	27 to 65
Lower valve body to upper valve body scr	automatic	20 to 30	2.77 to 4.15	27 to 41
Manual shaft locknut	automatic	7 to 9	0.97 to 1.24	9 to 12
Oil pan to gearbox	automatic	8 to 13	1.11 to 1.8	11 to 18
Oil tube and end plate to valve body	automatic	20 to 30	2.77 to 4.15	27 to 41
Pressure adaptor plug	automatic	4 to 5	0.55 to 0.69	5 to 7
Pump adaptor to housing bolts	automatic	17 to 32	2.35 to 4.43	23 to 43
Pump adaptor to housing screw	automatic	2 to 3	0.28 to 0.41	3 to 4
Pump adaptor to transmission case	automatic	8 to 18.5	1.11 to 2.56	11 to 24
Rear brake band adj. screw locknut	automatic	25 to 30	3.46 to 4.15	34 to 41
Rear servo adjusting screw locknut	automatic	25 to 30	3.46 to 4.15	34 to 41
Rear servo bolts	automatic	13 to 27	1.80 to 3.73	18 to 37
Starter inhibitor switch locknut	automatic	4 to 6	0.55 to 0.83	5 to 8
Stone guard screws	automatic	17 to 19	2.35 to 2.63	23 to 26
Transmission case to converter housing	automatic	8 to 13	1.11 to 1.80	11 to 18
Upper valve body to lower valve body scr	automatic	20 to 30	2.77 to 4.15	27 to 41
Valve bodies to transmission case bolts	automatic	5 to 9	0.69 to 1.24	7 to 12

PROP-SHAFT		FlLb	KgM	NM
Flange nuts	All models	30 to 35	4.1 to 4.8	41 to 47
REAR AXLE		FlLb	KgM	NM
Axle shaft nut	Salisbury	150	20.7	203
Bearing retaining nut	Banjo	180	24.9	244
Then align to next hole				
Crown wheel bolts	Salisbury	60 to 65	8.3 to 9.0	81 to 88
	Factory V8	63	8.7	85
Crown wheel to differential carrier	Banjo	55 to 60	7.6 to 8.3	75 to 81
Differential bearing cap bolts	Salisbury	50 to 55	6.9 to 7.6	68 to 75
Differential bearing cap bolts	Banjo	60 to 65	8.3 to 9.0	81 to 88
	Factory V8	53	7.3	72
Half-shaft nut	Salisbury	150	20.7	203
Pinion bearing nut	Banjo	135 to 140	18.7 to 19.4	183 to 190
Pinion nut new spacer only		180 to 220	24.9 to 30.4	244 to 298
Pinion nut oil seal change	Mark nut, shaft and flange positions, refit and tighten to the same point			

FRONT SUSPENSION		FlLb	KgM	NM
Anti roll bar link	All models	60	8.3	81
Bearing retaining nut stage 1	All models	40 to 70	5.5 to 9.7	54 to 95
stage 2	Tighten to next split-pin hole			
Bottom wishbone pivot to cross-member nut	Factory V8	45	6.22	61
Cross member to body	4-cyl	54 to 56	7.5 to 7.7	73 to 76
Cross member to side member nut: Top	Factory V8	55	7.61	75
Bottom	Factory V8	45	6.22	61
Front shock absorber bolts	All models	43 to 45	5.9 to 6.2	58 to 61
King pin to damper - upper fulcrum		40	5.5	54
King pin to wishbone - lower fulcrum		45	6.2	61
King pin trunnion (nut on top of king pin)		60	8.3	81
Shock absorber pinch bolt	All models	28	3.9	38
Spring pan nuts and screws	All models	22	3.0	30
Stiff nut to crossmember mounting bolt	Mk2	44 to 46	6.1 to 6.4	60 to 62
Wishbone cross bolt	All models	28	3.9	38

STEERING		FlLb	KgM	NM
Column clamp bolt	Factory V8	7	0.97	9
Note this is given in the manual as "8.5 lb inches"				
Road wheel nuts	4-cyl	60 to 65	8.3 to 9.0	81 to 88
	Factory V8	60	8.3	81
Steering arm bolts	All models	60 to 65	8.3 to 9.0	81 to 88
Steering column top fixing bolts	All models	12 to 17	1.66 to 2.35	17 to 23
Steering column universal joint bolts	All models	20 to 22	2.77 to 3.04	27 to 30
Steering lever balljoint nut	All models	34 to 35	4.7 to 4.8	46 to 47
Steering rack and pinion bearing nut	All models	40	5.5	54
Steering rack fixings		30	4.1	41
Steering tie-rod lock nut	All models	33 to 38	4.56 to 5.26	45 to 52
Steering wheel nut		36 to 38	4.98 to 5.26	49 to 52
Steering wheel nut 11/16 in. UNF		41 to 43	5.67 to 5.95	56 to 58
Steering wheel nut 9/16 in. UNF		27 to 29	3.73 to 4.01	37 to 39
Steering wheel nut	Factory V8	28	3.87	38
Swivel pin nut stage 1	All models	60	8.3	81
stage 2	Tighten to next split-pin hole			

BRAKES		FlLb	KgM	NM
Brake caliper clamping bolts				
Spotted by Ed Woods in the main body of the manual: "Only split the caliper if it is unavoidable, then replace the fluid channel seal, bolts and lock plates. Only bolts supplied by BMC Service Ltd. may be used"	All models	35.5 to 37	4.8 to 5.1	48 to 50
Brake caliper securing bolts	All models	40 to 45	5.5 to 6.2	54 to 61
Brake disc to hub	All models	40 to 45	5.5 to 6.2	54 to 61
Brake front servo bolts	All models	8 to 13	1.1 to 1.8	11 to 18
Brake pressure failure switch (nylon)		1.25	0.173	1.69
Note given as 15 lb in in the WSM				
Brake pressure failure switch end plug	All models	17	5.5	27
Note given as 200 lb in in the WSM				
Brake rear servo bolts	All models	13 to 27	1.8 to 3.7	18 to 37
Brake stone guard screws	All models	17 to 19	5.5 to 2.6	23 to 26
Hydraulic brake pipe connect 7/16 UNF		7 to 10	5.5 to 1.4	9 to 14
Hydraulic brake pipe connection 3/8 UNF		5 to 7	5.5 to 1.0	7 to 9
Master cylinder port adaptors	RB	33	5.5 to 4.6	45 to 45
Master cylinder reservoir fixing bolts	All models	5	5.5	7
Rear brake adjuster fixing nuts	All models	5 to 7	0.69 to 0.97	7 to 9

REAR SUSPENSION		FlLb	KgM	NM
Rear shock absorber bolts	4-Cyl	55 to 60	7.6 to 8.3	75 to 81
Shock absorber to side-member nut	Factory V8	58	8.0	78.6
GENERAL		FlLb	KgM	NM
Alternator mounting bolt	All models	20	2.8	27
Alternator pulley nut	All models	25	3.5	34
Alternator shaft nut	All models	25 to 30		