

Fastener	Torque		Fastener	Torque	
	lbft	kgm		lbft	kgm
Engine (848cc, 998cc)			Final Drive		
Camshaft Nut	60-70	8.3-9.7	Drive Gear to Differential Cage	60	8.3
Con Rod Big-end Bolts	35-38	4.8-5.3	Driving Flange to Differential nut*	70	9.6
Crankshaft Pulley Nut	70-80	9.7-11.1	Differential Housing End Cover bolts	18	2.5
Cylinder Head Stud Nuts	40	5.5			
Cylinder Side Cover	3-4	0.42-0.55	Suspension and Steering		
Clutch Spring Housing to Pressure Plate set screws	16	2.2	Drive shaft coupling U bolts (rubber cross inner joints)	8-12	1.11-1.66
Driving Strap to Flywheel set screw	16	2.2	Drive shaft nut (front hub, drum brakes) *	60	8.3
Flywheel Centre Bolt	110-115	15.2-15.9	Tie rod to front subframe	20-24	2.8-3.3
Flywheel Housing bolts and stud nuts	18	2.5	Tie rod to lower front suspension wishbone	17-20	2.8-3.3
Gudgeon Pin Clamp Screws	22-25	3.0-3.5	Front suspension upper support arm pivot shaft nut	45-60	6.2-8.3
Heater Control to Cylinder Head	6-8	0.83-1.11	Front suspension lower wishbone pivot shaft nut	30-35	4.1-4.8
Main Bearing set screws	60-65	8.3-9.0	Wheel nuts	40-45	5.5-6.2
Manifold to Cylinder Head	12-16	1.7-2.2	Steering column/rack pinion clamp bolt	8-10	1.11-1.38
Oil Filter Bown Centre Bolt	12-16	1.7-2.2	Steering arm to swivel hub	30-35	4.1-4.8
Oil Pump	6-9	0.83-1.25	Steering track-rod end to steering arm	20-24	2.8-3.3
Oil Pipe banjo	35-40	4.8-5.5	Steering-wheel nut	32-37	4.5-5.1
Oil Pressure Release Valve - dome nut	40-45	5.5-6.2	Swivel hub ball joint socket	70-80	9.6-11.1
Rocker Cover	3-4	0.41-0.55	Swivel hub ball joint to suspension arms	35-40	4.8-5.5
Rocker Shaft Bracket Nuts	22-25	3.0-3.5	Track rod end to steering rack locknut	35-40	4.8-5.5
Spark Plugs	18	2.5	Steering rack U-bolts to floor	10-12	1.4-1.7
Timing Cover and Front Plate 1/4in UNF bolts	4-6	0.55-0.83	Steering-column bracket to column clip & parcel shelf	13-18	1.8-2.5
Timing Cover and Front Plate 5/16in UNF bolts	10-14	1.4-1.9	Rear suspension rear hub nut *	60	8.3
Water Pump	14-18	1.9-2.5	Rear radius arm pivot shaft nut	45-60	6.2-8.3
Water Outlet Elbow	6-9	0.83-1.25	Backplate to rear radius arm bolts	18-22	2.5-3.0
Thermal Transmitter	16	2.2			
Extra Engine (970cc, 1071cc, 1275cc)			Suspension and Steering, Mini Cooper 997/998cc		
Cylinder Head nuts (11 stud head)	42	5.8	Caliper retaining bolts	35-40	4.8-5.5
Cylinder Head bolt (11 stud head)	25	3.5	Steering Lever ball joint	25-30	3.4-4.1
Con Rod Big-end nuts (assemble dry only)	40	5.5			
Main Bearing set screws (early type)	67	9.3	Suspension and Steering, Mini Cooper S Mk1-3		
Main Bearing nuts (later type)	57	7.9	Drive Shaft Nut *	150	20.7
Gearbox			Electrical Components		
Third Motion Shaft bearing retainer screws	13	1.8	Alternator (11AC) Brush box fixing screws	10	1.4
First Motion Shaft nut	150	20.7	Alternator (11AC) Diode heat sink fixings	25	3.5
Third Motion Shaft nut	150	20.7	Alternator (11AC) through-bolts	45-50	6.2-6.9
Transmission Case to Crankcase	6	0.8	Alternator (16ACR) Shaft nut	25-30	3.5-4.2
Transmission drain plug	25	3.5	Distributor Clamp Bolt (fixed nut type)	50	6.9
Transmission case studs - 3/8in dia. UNC	8	1.1	Distributor Clab Bolt (fixed bolt type)	30	4.2
Transmission case studs - 5/16in dia. UNC	6	0.8			
Transmission case stud nuts 3/8in UNF	25	3.4			
Transmission case stud nuts 5/16in UNF	18	2.5			
Bottom Cover set screws 1/4in dia. UNC	6	0.8			
			* Tighten to next split pin hole.		
			Prepared & Formatted by D.Souch for www.TheMiniForum.co.uk		