

Fiat Barchetta torque settings taken from the technical manual

Description	Thread size	Torque (daNm)	Torque (Nm)
Engine			
Caps to crankcase fixing, bolt with flange	M12x1.25	11.3	113
Oil sump to crankcase fixing, bolt	M8	1.5	15
Oil sump to crankcase fixing, bolt	M6	0.78	7.8
Air conditioner and power assisted steering support to crankcase fixing, bolt with flange	M10x1.25	4.9	49
Alternator mounting to crankcase fixing, bolt	M10x1.25	5.6	56
Belt tensioner fixing, bolt	M8	2.5	25
Fixed belt tensioner to cylinder head fixing, nut	M8	2.5	25
Camshaft caps to cylinder head fixing, bolt with flange	M7x1	1.5	15
Cylinder head to crankcase fixing, bolt with flange	M10x1.25	4+90°+90°+90°	40+90°+90°+90°
Timing belt shield fixing, bolt	M6	0.7	7
Cylinder head cover fixing, bolt	M6	0.78	7.8
Drive shaft bracket to oil sump fixing, bolt	M8	2	20
Drive shaft connecting support to crankcase fixing, bolt	M10x1.25	4.9	49
Inlet manifold to cylinder head fixing, nut	M8	2.5	25
Butterfly casing to inlet manifold fixing, bolt	M8	2.5	25
Connecting rod caps fixing, bolt with flange	M9x1	5.1	51
Flywheel to crankshaft fixing, bolt	M12x1.25	14.2	142
Timing drive gear to crankshaft fixing, bolt with flange	M16x1.5 left	36	360
Auxiliary shaft drive pulley fixing, bolt	M8	2.8	28
Sensors to crank case and to cylinder head fixing, bolt	M6	0.7	7
Driven gear to camshaft fixing, bolt	M12x1.25	11.8	118
Auxiliary shaft complete support to crankcase fixing, bolt with flange	M10x1.25	5	50
Flywheel side cover fixing, bolt	M6	0.74	7.4
Water pump to cylinder head fixing, nut with flange	M8	2	20
Filler to cylinder head fixing, bolt	M6	0.7	7
Filler to crankcase fixing, bolt	M6	0.7	7
Thermostat to cylinder head fixing, bolt	M8	2	20
Air conditioner to support fixing, bolt with flange	M10x1.25	5	50
Reaction bracket to support fixing, bolt with flange	M10x1.25	5	50
Reaction bracket to air conditioner fixing, bolt with flange	M8	2.5	25
Alternator to support fixing, upper and lower nut	M12x1.25	7	70
Alternator mounting to crankcase fixing, bolt	M10x1.25	5	50
Gearbox shield fixing, bolt with flange	M6	0.75	7.5
Exhaust manifold fixing, nut	M8	2.5	25
Piston lubrication jet to crankcase fixing, bolt	M6	0.74	7.4
Engine oil dip stick to exhaust manifold fixing, nut	M6	0.7	7
Power assisted steering pump to mounting fixing, bolt with flange	M8	2.5	25
Pulley to power assisted steering pump fixing, bolt	M8	2.8	28

Oil pressure sender unit	M14x1.5	3	30
Engine coolant temperature sender unit	M14x1.25	3	30
Engine oil pressure switch	M14x1.5	3.2	32
Spark plugs	M14x1.25	2.5	25
Pipe to EGR valve fixing, bolt	M6	0.78	7.8
Coolant temperature sender unit for injection/ignition system	M14x1.25	3	30
Thermal sender unit for pollution control		1.5	15
Engine exhaust			
Nut with metal insert for fixing to exhaust manifold	M8	3	30
Exhaust pipe fixing, bolt	M8	4	40
Exhaust pipe rear brackets fixing, bolt	M8	3.5	35
Exhaust pipe support fixing, nut	M10	3	30
Silencer heat shield fixing, nut with unlosable tapered washer	M8	2.7	27
Silencer heat shield fixing, bolt	M8	2.7	27
Power unit supports			
Flexible mounting (engine side) to bodyshell fixing, bolt	M10*1.25	5	50
Flexible mounting (gearbox side) to bodyshell fixing, bolt	M10*1.25	5	50
Flexible mounting (differential side) to front cross member fixing, bolt	M8	4	40
Engine fuel system			
Air filter mounting bracket to bodyshell fixing, flanged bolt	M8	2.76	27.6
Vapour separator fixing, nut with unlosable flexible tapered washer	M8	1.6	16
Vapour separator to bodyshell fixing, nut with flexible flange	M8	1.8	18
Gearbox			
Cable mounting on gearbox fixing, bolt with normal flange	M8	2.7	27
Selector idler to gearbox fixing, nut for bolt	M8	2.2	22
Selector rod to gear lever fixing, nut	M8	2.2	22
Vehicle interior rod with selector lever fixing, nut	M6	1	10
Gearbox cover to floor fixing, nut	M8	2.2	22
Bowden cover to gearbox control cover fixing, bolt	M6	1	10
Braking system			
Handbrake lever to mounting fixing, bolt	M8	2	20
Cable and handbrake support fixing, bolt with unlosable washer	M8	1.6	16
Union connecting flexible pipes to front brake caliper	M10x1	1.8	18
Union connecting flexible pipes to rear brake caliper	M10x1	1.8	18
Male union for pipes with inflated ends for fixing rigid pipes to front and rear caliper flexible pipes	M10x1	1.8	18
Male union for pipes with inflated ends for fixing rigid pipes to the pump and regulators	M10x1	1.8	18
Male union for pipes with inflated ends fixing rigid pipes to flexible pipes on rear axle	M10x1	1.8	18

Bolt with unlosable flexible washer fixing brake pipe retaining bracket to rear suspension arms	M8	1.6	16
Male union for pipes with inflated ends on ABS control unit pipes	M10	1.4	14
Male union for pipes with inflated ends on brake servo pipes	M10	1.8	18
Seal on brake servo pump	M10	1.8	18
ABS control unit bracket on side panel fixing, nut	M8	2.4	24
ABS control unit bracket fixing, bolt with tapered unlosable washer	M8	2	20
Control unit support to bodyshell fixing, nut with unlosable tapered washer	M8	2.4	24
Brake and clutch pedals fixing, nut for bolt	M8	3.2	32
Upper and lower brake servo to dashboard fixing, nuts with flexible flange	M8	2.2	22
Steering			
Steering box to cross member fixing, bolt with unlosable flat washer	M12x1.25	7	70
Head to steering knuckle fixing, nut	M10x1.25	4	40
Steering adjustment rod fixing, nut	M12x1.5	3.4	34
Filler for oil supply union from pump to power assisted steering	M14x1.5	3	30
Filler for adjustable oil supply union from the power assisted steering pump to the power steering	M12x1.5	2	20
Oil supply pipe union from the pump to the power steering	M16x1.5	3.6	36
Steering wheel to steering control shaft fixing, nut	M16x1.25	5	50
Lower and upper fork fixing, nut	M8	3	30
Lower steering shaft fixing, bolt	M8	3	30
Steering box rods to wheel hub fixing, nut	M10		
Suspension			
Track control arm joint fixing, nut	M8	3.2	32
Shock absorbers to bodyshell fixing, flanged bolt	M10	6.2	62
Drive shaft fixing, bolt	M8	4.4	44
Drive shaft to front hub fixing, nut with unlosable washer	M24	28	280
Cross member to floor fixing, flanged bolt	M12	11.5	115
Cross member to strut fixing, flanged bolt	M12	11.5	115
Rear suspension frame fixing, bolt	M12x1.25	10	100
Hub with shock absorber fixing, nut	M10x1.25	7	70
Bolt fixing type A wheel	M12	8.6	86
Bolt fixing alloy wheel	M12	8.6	86
Auxiliary units			
Union for evaporator pipe	7/8" 14 UNF2B	3	30
Union for rigid drier filter/evaporator pipe	5/8" 18 UNF2B	2	20
Pipe mounting bracket fixing, but with unlosable flexible tapered washer	M8	1.8	18

Bodywork			
Tow hook mounting bracket fixing, tapered bolt	M8	2.4	24
Cross member to bodyshell fixing, bolt	M10	4.5	45
Tank and filler to bodyshell fixing, bolt with wide flange	M8	2.8	28
Special bolt fixing reel	7/16"	4	40
Left/right (side door) lock fixing, bolt with unlosable washer	M8	2	20
Door striker fixing, bolt	M8	2.4	24
Cable on lock lever fixing, nut	M8	2	20
Rear moving pad to bodyshell - rear bumper fixing, bolt	M8	1.5	15
Rear bumper to bodyshell fixing, nut	M8	1.5	15
Front moving pad front bumper fixing, bolt	M8	1.5	15
Front bumper mounting bracket to bodyshell fixing, nut	M10	3.1	31
Side hood to side panel fixing, bolt	M8	2.9	29
Hood strikers to cross member fixing, bolt	M8	2.4	24
Front seat special fixing, bolt	M8	2.9	29
Battery drip tray bracket fixing, flanged bolt (basic version)	M8	1.7	17
Battery drip tray to bodyshell fixing, bolt with unlosable flexible tapered washer	M8	1.7	17
Battery drip tray fixing bracket flanged bolt (version with OPT anti-theft control unit)	M8	1.7	17
Earth cables fixing, bolt		2.4	24
Earth cable on engine fixing, nut with metal insert	M8	2.4	24
Windscreen washer fluid reservoir fixing, nut with flange	M8	2.4	24
W/screen washer fluid reservoir fixing, flanged bolt	M8	2.4	24
Windscreen wiper fixing, nut	M8	1.6	16
Aerial earth on bodyshell fixing, bolt	M8	1.5	15