

Repair manual



C1

C1 200

**BMW Motorrad
After Sales**

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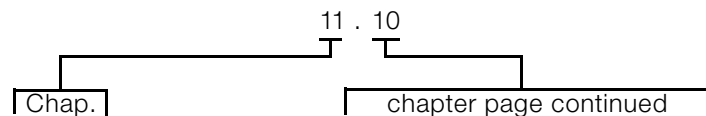
Preface

This Repair Manual is intended to assist you in performing all essential maintenance and repair operations to a professional standard. In its role as a reference source for service personnel, it supplements and expands upon the theoretical and hands-on instruction provided at our training centres to enhance the quality of our service.

A new edition of this manual will be issued in response to required revisions or the need to incorporate additional information (supplements).

The illustrations and descriptions contained in this manual apply exclusively to standard, unmodified BMW Motorcycles and/or BMW Motorcycles equipped with factory-approved BMW accessories and options.

- The Repair Manual's structure reflects the logical sequence in which the operations it describes will be performed: removal, dismantling, repairs, assembly and installation.
- The individual chapters in this manual correspond to the motorcycle's individual assembly groups.



A reference arrow with chapter and page calls your attention to additional information contained in another section of the manual.

e.g.  Refer to Assembly Group 46

- Group "00" describes the operations carried out in the course of each Inspection. The various inspection routines are numbered I, II, III and IV. To help in maintaining a continuous, logical work sequence, these same numerical designations are employed to identify the subsequent sections describing the actual repair operations.
- Use of the BMW special tools needed for certain operations is described in the work instructions.

When the need arises, repair instructions are also issued in the form of Service Information Bulletins. This information is then incorporated into subsequent editions of the repair manual. We also recommend the lavishly illustrated Electronic Parts Catalogue as a supplementary source of information.

When individual steps within an overall operation only apply to motorcycles with specific accessories or optional equipment, the options to which the steps refer are identified by brackets at the start of the line, such as **[with heated grips]**.

Please devote your careful attention to the following pages with their explanations describing the symbols used in the manual and their significance.

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How to use this manual

Each chapter starts with a table of contents.

Following the table of contents is a table containing the technical data and specifications for the chapter's subject.

Chapter 00 describes maintenance procedures and provides general information as well as the pre-delivery inspection; it furnishes all torque specifications along with listings of fluids and lubricants.

Explanation of symbols

This repair manual for the C1 employs the following symbols; please refer to the table for their meanings.

Special notices for more efficient procedures



Note:

These special notices help technicians work more efficiently when operating, inspecting, adjusting and maintaining motorcycles.



Attention:

Special information and precautionary notices to prevent damage to the motorcycle. Failure to observe these mandatory precautions may invalidate the warranty.



Warning:

Precautions intended to protect the rider and/or other individuals against injury as well as potentially fatal hazards.

Contents

The titles of the operations described in this chapter together with the page numbers

Operations

- Operations
- A dot or period identifies individual procedures described under a title
- Previous operations
- The hyphen identifies procedures described in more detail under a different title or in another chapter

Remove means:

to completely unscrew a retaining component (such as a bolt or screw)

or

to detach a component (such as an injection rail) and move it enough to gain access to assemblies installed behind it (such as a throttle-valve).

Loosen means:

to unscrew an attachment (such as a bolt or screw) without removing it entirely from its threaded socket or retainer



Torque specifications:

These data are indicated whenever torques deviate from the standards defined in DIN EN 24 014 and DIN 912 ISO.

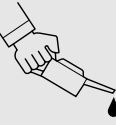
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Group / Chapter

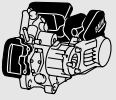
00 Tightening torques operating fluids

00 Pre-delivery check

00 Maintenance



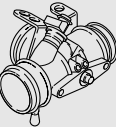
11 Engine



12 Engine electrics



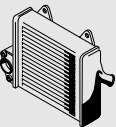
13 Fuel preparation and control



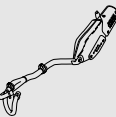
16 Fuel tank and lines



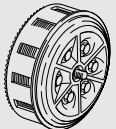
17 Radiator



18 Exhaust system



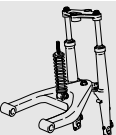
21 Clutch



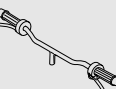
24 Gearbox



31 Front forks



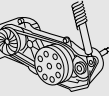
32 Steering



>> Continuation

Group / Chapter

33 Rear wheel drive



34 Brakes



36 Wheels and tyres



46 Frame



51 Equipment



52 Seat



61 General electrical equipment



62 Instruments



63 Lights



65 Optional extras



72 Seat belts



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BMW Motorrad Maintenance schedule C1, C1 200



			BMW Inspection at 10,000 km/6000 miles	BMW Maintenance Service every 7,500 km/4,500 miles	BMW Inspection every 15,000 km/ 9,000 miles	BMW Annual Service
Customer	Licence No.	Mileage				
Job Order No.	Date	Mechanic's signature				
MoDiTeC/DIS plus, read fault code memory			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change the engine oil while at regular operating temperature and replace the oil filter element If the vehicle is ridden for short distances only or at outside temperatures below 0° C (32° F): every 3 months or after every 3,000 km (1,800 miles) at the latest			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clean oil strainer and magnetic plug			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change transmission fluid every 30,000 km/18,000 miles or 3 years^{*)}					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inspect coolant level, top up if necessary, inspect hoses for damage, chafing points			<input type="checkbox"/>		<input type="checkbox"/>	
Change the coolant every 2 years^{*)}						<input checked="" type="checkbox"/>
Check valve clearances and adjust if necessary ^{*)}			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Replacing spark plug				<input type="checkbox"/>	<input type="checkbox"/>	
Replace air filter element shorten change interval if severely dirty or dusty				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Drain condensate drain hose from air manifold						<input type="checkbox"/>
Brake hoses and connections: check condition and routing				<input type="checkbox"/>	<input type="checkbox"/>	
Check operation of brake system and check for leaks; repair/replace as necessary ^{*)}				<input type="checkbox"/>	<input type="checkbox"/>	
Inspect brake fluid level at front/rear			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Examine brake pads and discs for wear, renew if necessary ^{*)}				<input type="checkbox"/>	<input type="checkbox"/>	
Renew brake fluid at least once a year						<input checked="" type="checkbox"/>
Replace variator belt				<input type="checkbox"/>	<input type="checkbox"/>	
Check clutch liner, replace if necessary ^{*)}					<input type="checkbox"/>	
Cleaning mesh filter of variator				<input type="checkbox"/>	<input type="checkbox"/>	
Grease driving variator (greased version)				<input type="checkbox"/>	<input type="checkbox"/>	
Check and clean driving variator (ungreased version, replace variator if necessary)					<input type="checkbox"/>	
Replace complete driving variator every 22,500 km/14,000 miles, greased version only				<input checked="" type="checkbox"/>		
Check wheel bearings for play; replace if necessary ^{*)}					<input type="checkbox"/>	
Checking that leading-link mounts are free of play			<input type="checkbox"/>			<input type="checkbox"/>
Battery: check battery acid level, if necessary add distilled water						<input type="checkbox"/>
Clean and grease the battery terminals, if necessary						<input type="checkbox"/>
Check freedom of movement of Bowden cables, check for abrasion and damage					<input type="checkbox"/>	<input type="checkbox"/>
Easy-lift mechanism: – Check operation of mechanism and check freedom of movement – Inspect Bowden cables for damage and signs of wear and chafing, ensuring that mechanism moves freely without binding; check free travel and adjust as required ^{*)}			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check windscreen washer system; adjust nozzles if necessary and top up washer fluid in reservoir			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Check windscreen wiper; replace wiper blade if necessary ^{*)}				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety elements: check cable for release, belt buckles, belt strap, inertia reels, and belt locks			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check crash element for damage			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspect shoulder bar for damage, replace deformation element if necessary ^{*)}			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Replace fuel filter every 37,500 km/22,500 miles				<input checked="" type="checkbox"/>		
Only ABS: Replace seal in brake master cylinder every 30,000 km/18,000 miles^{*)}					<input checked="" type="checkbox"/>	
Check tightness of bolts and nuts at engine mountings and quick-release axles			<input type="checkbox"/>			
Final inspection with road safety and functional check: – Clutch engagement, steering, front and rear brake – Condition of tyres and wheels, tyre inflation pressure – Lights and signalling equipment, telltale and warning lights, instruments – If necessary, test ride				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

^{*)} Write up on separate invoice; Not part of standard service procedure

BMW Motorrad Pre-delivery Check C1, C1 200



<p>Customer _____</p> <p>Order no. _____</p>	<p>Registration number _____</p> <p>Signature of mechanic _____</p>	<p>BMW Pre-delivery Check</p>
<p>Inspect transportation packaging for damage</p>		<p><input type="checkbox"/></p>
<p>C1:</p> <ul style="list-style-type: none"> - Unpack - Inspect for damage - Attach parts - Clean 		<p><input type="checkbox"/></p>
<p>Battery:</p> <ul style="list-style-type: none"> - Remove - Pour in electrolyte - Charge - Grease terminals - Install (mark date of installation) 		<p><input type="checkbox"/></p>
<p>Inspect complete scope of supply:</p> <ul style="list-style-type: none"> - Toolkit - Documentation - Keys - Scope of optional equipment 		<p><input type="checkbox"/></p>
<p>Inspect tyre inflation pressure</p>		<p><input type="checkbox"/></p>
<p>Pour in fuel</p>		<p><input type="checkbox"/></p>
<p>Operational check as final inspection:</p> <ul style="list-style-type: none"> - Engine idling - Clutch, clutch engagement - Steering - Seat belt - Easy-lift mechanism - Brakes, front and rear - Lights and signalling equipment, telltale and warning lights, instruments - Set headlight - If necessary, test ride 		<p><input type="checkbox"/></p>

BMW Motorrad

Service data

C1, C1 200



Item	Specified value	Unit of measure or specification
Oil capacities		
Engine (with filter)	1.0 (0.22)	litres (Imp pints) 15W40
Gearbox	0.090 (0.020)	litres (Imp pints) API GL 4
Coolant		
Cooling system	1.25 (2.2)	litres (Imp pints)
Expansion tank	0.2 (0.35)	litres (Imp pints)
		Mixing ratio: Water: 50% Antifreeze: 50% Protection down to -25 °C (-13 °F)
Windshield washer fluid	1.0 (1.8)	litres (Imp pints) Water and cleaning product, antifreeze as required
Brake fluid		DOT 4
Valve clearances		
Measured cold, maximum 35 °C (95 °F)	Inlet: 0.05...0.14 (0.002...0.006) Exhaust: 0.20...0.29 (0.009...0.010)	mm (in) mm (in)
Spark plugs		NGK CR8 EB
Electrode gap	0.8...0.9 (0.031...0.035)	mm (in)
Idle speed	1 900	rpm
Tyre pressures (tyres cold)		
Solo	Front/rear 1.9/2.1 (27.6/30.5)	bar (psi)
Full load	1.9/2.4 (27.6/34.8)	bar (psi)
Tightening torques:		
Engine oil drain plug	20	Nm
Oil strainer to engine	30	Nm
Engine water drain plug	10	Nm
Oil filter cover	10	Nm
Camshaft gears to camshaft	30	Nm (Loctite 243)
Guide rail to camshaft support	10	Nm (Loctite 243)
Chain tensioner plug	35	Nm
Camshaft bearing bridge	10	Nm
Valve cover	10	Nm
Machine bolt TDC setting	15	Nm
Spark plug	15	Nm
Driving variator	60	Nm (Loctite 243)
Driving variator cover	4	Nm
Driven variator	60	Nm
Locknut of clutch to driven variator	50	Nm (Loctite 243)
Variator cover to power train link	10	Nm
Ventilation cover for variator	9	Nm
Front stub axle	30	Nm
Clamping bolts for front stub axle	21	Nm
Brake calliper at fork slider tube	41	Nm
Bleed screw in brake calliper	14	Nm
Cover of handbrake control	Hand-tight	Nm
Rear stub axle, use nut only once	130	Nm
Exhaust to cylinder head	15	Nm
Auxiliary link to power train link M8	21	Nm
Auxiliary link to power train link M10	60	Nm (Loctite 243)
Silencer to auxiliary link	21	Nm
Suspension strut to power train link/brake calliper holder	21	Nm
Link mounting to power train link	73	Nm
Tubular link to frame	73	Nm
Stand to frame	41	Nm
Rubber element to tubular link	42	Nm
Cladding bolts	2.8	Nm

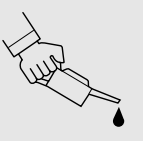
00 Tightening torques operating fluids

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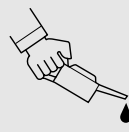
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16 Fuel tank	4
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Torque specifications

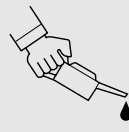
Model	C1	
Connection		
11 Engine		
Oil drain plug, magnetic	Nm	20
Threaded plug, oil strainer	Nm	30
Oil filter cover	Nm	10
Threaded TDC set plug	Nm	15
Alternator		
Alternator cover up to engine no.: 745 594	Nm	10
Alternator cover from engine no.: 745 595	Nm	12
Ignition trigger, Tapite screw	Nm	6 LOCTITE 243
Holder for alternator cable, Tapite screw	Nm	6 LOCTITE 243
Reluctor to crankshaft, locking fluid	Nm	30 LOCTITE 243
One-way clutch, locking fluid	Nm	30 LOCTITE 243
Alternator to cover	Nm	10
Chain tensioning rail, locking fluid	Nm	10 LOCTITE 243
Cylinder head		
Cylinder head cover	Nm	10
Collar nut	Nm	30 ±1
Securing screw	Nm	10
Spark plug	Nm	15
Camshaft sprockets, locking fluid	Nm	30 LOCTITE 243
Bearing cap	Nm	10
Chain guide, locking fluid	Nm	10 LOCTITE 243
Plug for chain tensioner	Nm	35
Vent screw	Nm	9
Dual temperature sensor, locking fluid	Nm	15 LOCTITE 243
Housing		
Starter motor	Nm	10
Oil pressure switch, locking fluid	Nm	12 LOCTITE 243
Oil pressure valve	Nm	30
Stud (tie bolt)	Nm	10
Housing screws	Nm	10
Oil pump, Tapite screw	Nm	6 LOCTITE 243
Water-pump housing, Tapite screw	Nm	6 LOCTITE 243
Spring strut at bottom	Nm	21





Model	C1	
Connection		
12 Engine electrical system		
Spark plug	Nm	15
Ignition coil to frame	Nm	5
Ignition trigger, Tapite screw	Nm	6 LOCTITE 243
Reluctor to crankshaft, locking fluid	Nm	30 LOCTITE 243
One-way clutch, locking fluid	Nm	30 LOCTITE 243
Alternator to cover	Nm	10
Starter motor	Nm	10
Model	C1	
Connection		
13 Fuel injection system		
Fuel filter clamp	Nm	5
Holder for injection nozzle (self-tapping)	Nm	4 LOCTITE 243
Pressure regulator clamp	Nm	9
BMS control unit	Nm	5
Intake manifold	Nm	9
Air plenum clamp	Nm	Hand-tight
Air filter housing (inner/outer)	Nm	9
Throttle cable	Nm	8
Spring strut at bottom	Nm	21
Model	C1	
Connection		
16 Fuel tank		
Fuel filter clamp	Nm	5
Bracket, fuel tank to frame	Nm	9
Union nut (fuel-pump unit)	Nm	20
Baseplate to frame Bracket for washer fluid reservoir on frame	Nm	9
Bracket for washer fluid reservoir/ABS control unit on frame	Nm	9
Model	C1	
Connection		
17 Cooling system		
Drain plug	Nm	10
Vent screw	Nm	9
Bracket for seat latch, right, to frame	Nm	42
Bracket for seat latch, left, to frame	Nm	5

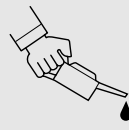
Model	C1	
Connection		
17 Cooling system		
Expansion tank to frame upright	Nm	3
Front frame to cross brace	Nm	14
Air duct to fan shroud	Nm	9
Radiator to front frame	Nm	9
Fan shroud to radiator	Nm	9
Air duct to front frame	Nm	9
Filler bowl to front frame	Nm	9
Coolant pipe clamp to frame	Nm	9
Screw clamp on engine	Nm	Hand-tight
Bleeder screw to engine	Nm	9
Model	C1	
Connection		
18 Silencer (muffler)		
Shield to holder	Nm	5
Exhaust pipe to cylinder head	Nm	15
Silencer to auxiliary swing arm	Nm	21
Oxygen sensor to silencer	Nm	23
Model	C1	
Connection		
21 Clutch		
Vent cover for variator	Nm	9
Variator cover	Nm	10
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Locknut on driven variator, locking fluid	Nm	50 LOCTITE 243
Model	C1	
Connection		
24 Gearbox		
Variator		
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Variator cover	Nm	10
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Cover, drive variator	Nm	4
Driven variator (clutch drum)	Nm	60
Locknut of driven variator, locking fluid	Nm	50 LOCTITE 243





Model		C1
Connection		
24 Gearbox		
Gearbox		
Gearbox cover	Nm	11
Gearbox drain plug	Nm	20
Gearbox filler plug	Nm	5
Model		C1
Connection		
31 Front forks		
Fork cross brace to frame (screw stud) locking fluid	Nm	83 LOCTITE 243
Leading link to telescopic tube cross brace locking fluid	Nm	127 LOCTITE 2701
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Fork stanchion to fork cross brace	Nm	52
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Spring strut to leading link	Nm	41
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Clamp of telescopic tube to telescopic tube cross brace	Nm	25
Eyebolts	Nm	8
Lock to easy-lift mechanism	Nm	4
Model		C1
Connection		
32 Steering		
ABS sensor to telescopic tube	Nm	9
Combination switch	Nm	4
Brake light switch	Nm	Hand-tight
Throttle cable	Nm	8
Clamp screw for brake lever fitting	Nm	9
Brake line to brake lever fitting	Nm	18
Handlebar to fork cross brace	Nm	21
Locknut for handlebar lever pivot pin	Nm	3

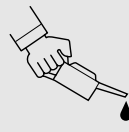
Model	C1	
Connection		
33 Final-drive unit		
Top suspension strut	Nm	41
Spring strut at bottom	Nm	21
Auxiliary swing arm to brake caliper holder M, screw locking fluid10	Nm	60 LOCTITE 243
Auxiliary swing arm to brake caliper mount M8	Nm	21
Model		
C1		
Connection		
34 Brakes		
Brake caliper at telescopic tube	Nm	41
Banjo bolt to brake caliper	Nm	18
Bleed screw in brake caliper	Nm	14
6-point nut to final-drive shaft (rear wheel), use only once	Nm	130
Auxiliary swing arm to brake caliper holder, M10 bolt, with locking fluid	Nm	60 LOCTITE 243
Auxiliary swing arm to brake caliper mount, M8	Nm	21
Auxiliary swing arm to powertrain cradle	Nm	21
Expansion tank cap	Nm	1
Suspension strut to brake caliper carrier	Nm	21
ABS sensor to brake caliper carrier	Nm	9
ABS sensor to telescopic tube	Nm	9
Brake disc	Nm	21
ABS reluctor ring	Nm	5
Baseplate to frame Bracket for washer fluid reservoir on frame	Nm	9
Brake lines to ABS control unit, M12x1	Nm	18
Brake lines to ABS control unit, M10x1	Nm	18
Union, brake hose/brake line	Nm	18
Bracket on frame joint	Nm	5
Brake line to brake lever fitting	Nm	18
All fasteners, brake line to frame	Nm	5





Model	C1	
Connection		
36 Wheels		
Stub axle, locking fluid	Nm	30
Quick-release axle clamp screws	Nm	21
Brake caliper at telescopic tube	Nm	41
6-point nut to final-drive shaft (rear wheel), use only once	Nm	130
Auxiliary swing arm to brake caliper holder, locking fluid, M10	Nm	60 LOCTITE 243
Auxiliary swing arm to powertrain cradle, M8	Nm	21
Spring strut at bottom	Nm	21
Model		
C1		
Connection		
46 Frame		
Body panels to body panels	Nm	2,8
Body panels to frame	Nm	2,8
Lightweight foam element to frame	Nm	5
Foam part to cross member	Nm	5
Air plenum to rear wheel mudguard	Nm	12
Roof/windscreen to cross bar	Nm	5
Windscreen to bracket	Nm	5
Bracket, wiper motor to roof frame	Nm	5
Rear mudguard to powertrain cradle	Nm	12
Air filter housing to powertrain cradle	Nm	12
Crash element shoulder bar to frame	Nm	9
Holder, crash element to frame	Nm	9
Rear frame to frame	Nm	21
Suspension strut to rear frame	Nm	41
Joint		
Nut to frame, front left, M28	Nm	105
Screw to frame, front left, M28	Stage 1	20
Screw to frame, front left, M28	Stage 2	Back off 1/2 turn
Screw to frame, front right	Nm	73
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Rubber bush to joint	Nm	42
Powertrain cradle to joint	Nm	73
Joint swinging arms to each other	Nm	73
Easy-lift mechanism		
Spring strut to leading link	Nm	41
Articulated-lever mechanism to frame	Nm	21

Model	C1	
Connection		
46 Frame		
Attachment of control cam of large hand lever, locking fluid	Nm	2 LOCTITE 243
Stand to frame	Nm	41
Switch (easy-lift mechanism) stand to frame	Nm	8
Spring holder (easy-lift mechanism) to frame	Nm	21
Bowden cable retaining bracket to frame	Nm	21
Lock of Bowden cable	Nm	8
Auxiliary swing arm to powertrain cradle	Nm	21
Eyebolt to frame	Nm	8
Shoulder bar		
Seat to frame	Nm	21
Head restraint to frame	Nm	21
Shoulder bar, top, to frame M10	Nm	41
Shoulder bar, top, to frame M8	Nm	21
Shoulder bar, bottom, to frame M6 (clamping screw)	Nm	9
Roof frame		
Front roof bar (clamp)	Nm	21
Rear roof bar (clamp)	Nm	21
Roof frame cross brace	Nm	21
Mirror brackets	Nm	5
Luggage system		
Top bracket to frame	Nm	8
Bracket to rear frame	Nm	21
Top bracket to bracket	Nm	21
Lock carrier	Nm	5
Head restraint to frame	Nm	21
Model	C1	
Connection		
51 Equipment		
Ignition lock to frame	Nm	9
Seat latch	Nm	9
Seat bench lock to left rear side panel	Nm	3
Striker on rear storage compartment	Nm	3
Lock cylinder on rear storage compartment	Nm	7
Striker of storage compartment	Nm	3
Lock cylinder on storage compartment	Nm	7
Lock bolt for luggage rail	Nm	3





Model		C1
Connection		
51 Equipment		
Mirror bracket to frame	Nm	5
Mirror to mirror bracket	Nm	4
Cover on mirror arm	Nm	3
Model		C1
Connection		
52 Seats		
Seat to frame	Nm	21
Seat lock	Nm	9
Backrest	Nm	Hand-tight
Head restraint to frame	Nm	21
Model		C1
Connection		
61 Electrical equipment		
Combination switch	Nm	4
Battery cable to battery	Nm	3
Battery cable to starter relay	Nm	3
Control current cables to starter relay	Nm	0,4
Voltage regulator to frame	Nm	12
BMS control unit to frame	Nm	5
Wipe/wash sensor to frame	Nm	3
Earth cable to frame	Nm	5
Wiper arms	Nm	9
Clamp, cable harness to frame	Nm	5
Horn to frame	Nm	8
Windscreen wiper motor to bracket	Nm	5
Wiper motor bracket to roof frame	Nm	5
Stationary shaft, wiper motor	Nm	9
Cable to starter	Nm	5
Bracket of starter relay to frame	Nm	5
Bracket of wiring harness to frame	Nm	5