

Telephone:
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 VAT Registration No.:

Notes			Specified value	Measured value
Tightening torques				
	Cylinder head instructions			
Cylinder head				
		Renew bolts	Yes	
	Stage 1	Tighten	25 Nm	
	Stage 2	Tighten	60°	
	Stage 3	Tighten	60°	
	Stage 4	Tighten	60°	
Other engine tightening torques				
312	Main bearings	Stage 1		
222	Big end bearings	Stage 1		
	Oil pump to cylinder block		8 Nm	
133	Sump bolts			
	Sump drain bolt		10 Nm	
304	Flywheel/driveplate			
311	Clutch pressure plate			
3	Crankshaft pulley/damper centre bolt		150 Nm+45°+15°	
	Crankshaft pulley/damper bolts		8 Nm	
109	Camshaft sprocket/gear			
	Camshaft carrier/cap		8 Nm	
	Camshaft/rocker cover		8 Nm	
	Inlet manifold to cylinder head		10 Nm	
	Exhaust manifold to cylinder head		22 Nm	
3	Water pump		8 Nm	
	Spark plugs		25 Nm	
	Fuel rail		6 Nm	
	Crankshaft position (CKP) sensor/engine speed (RPM) sensor		8 Nm	
	Camshaft position (CMP) sensor		6 Nm	
	Engine coolant temperature (ECT) sensor		18 Nm	
	Knock sensor (KS)		20 Nm	
	Engine oil pressure switch		20 Nm	
Chassis tightening torques				
191	Front hub		70 Nm+60°+5°	
191	Rear hub		280 Nm	
187	Steering wheel		30 Nm	
305	Steering rack/box mounting		45 Nm+45°+15°	
3	Steering track rod end		35 Nm	
	Brake disc to hub	Front	7 Nm	
3	Brake caliper to carrier	Front	30 Nm	
282	Brake caliper carrier to hub	Front	105 Nm	
	ABS sensor	Front	8 Nm	
	ABS sensor	Rear	8 Nm	
377	Road wheels		110 Nm	

Autodata Note 312

Main bearings

Manufacturer: Vauxhall/Opel

Engine code: Z14XEP

Tuned for: R-Cat

Model: Corsa-D 1,4

Output: 66 (90) 5600

Year: 2006-11

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V8 500- /Autodata

Use new bolts.

M6 = 10 Nm + 60° + 15°

M8 = 25 Nm + 60° + 15°

Autodata Note 222

Big end bearings

M6

Use new bolts and tighten as follows:

1) 10 Nm

2) 60°

3) 15°

M6.5

Use new bolts and tighten as follows:

1) 13 Nm

2) 60°

3) 15°.

Autodata Note 133

Sump bolts

Sump to cylinder block = 10 Nm

Sump to transmission = 40 Nm.

Autodata Note 304

Flywheel/drive plate

Use new bolts and apply locking fluid. Tighten in the following stages:

1) 35 Nm

2) 30°

3) 15°

Autodata Note 311

Clutch pressure plate

M6 = 12 Nm

M7 = 15 Nm

M8 = 28 Nm

Autodata Note 3

Use new nuts/bolts.

Autodata Note 109

Camshaft sprocket

Use new bolts and tighten in the following stages:

1) 50 Nm

2) 60°.

Autodata Note 191

Use new nuts.

Autodata Note 187

Apply locking fluid.

Autodata Note 305

Use new nuts/bolts and washers.

Autodata Note 282

Clean thread and use nuts/bolts with locking fluid.

Autodata Note 377

Road wheels

Lightly coat conical seat of bolt and mating surfaces between wheel centre hole and hub (use grease).
Do NOT lubricate bolt thread.

