

Telephone:
Fax:
VAT Registration No.:

Notes			Specified value	Measured value
Tightening torques				
5	Cylinder head instructions			
Other engine tightening torques				
	Main bearings	Renew bolts/nuts	No	
	Main bearings	Stage 1	29-32 Nm	
	Main bearings	Stage 2	58-63 Nm	
	Big end bearings	Renew bolts/nuts	No	
	Big end bearings	Stage 1	20 Nm	
	Big end bearings	Stage 2	70°	
	Oil pump to cylinder block		22 Nm	
	Sump bolts		9 Nm	
	Sump drain bolt		32 Nm	
	Flywheel/driveplate		98-112 Nm	
20	Clutch pressure plate			
	Crankshaft pulley/damper centre bolt		400-420 Nm	
	Camshaft sprocket/gear		65 Nm	
19	Camshaft carrier/cap			
18	Camshaft/rocker cover			
72	Inlet manifold to cylinder head			
73	Exhaust manifold to cylinder head			
	Spark plugs		24-28 Nm	
	Lambda sensor (Oxygen)		55 Nm	
	Knock sensor (KS)		20 Nm	
Chassis tightening torques				
	Front hub		290 Nm	
	Rear hub		200 Nm	
	Steering track rod end		33-40 Nm	
	Brake disc to hub	Front	16 Nm	
	Brake caliper to carrier	Front	33 Nm	
	Brake caliper carrier to hub	Front	123 Nm	
	Brake disc to hub	Rear	16 Nm	
	Brake caliper to carrier	Rear	30 Nm	
	Brake caliper carrier to hub	Rear	67 Nm	
	Back plate to hub	Rear	65 Nm	
	Road wheels		120±10 Nm	

Autodata Note 5

Cylinder head bolts

Tighten hexagonal bolts in following stages:

- 1) 40-45 Nm
- 2) Wait 15 minutes
- 3) 60-65 Nm
- 4) Run engine for 25 minutes
- 5) 25°-30°.

Use new Torx bolts and tighten in following stages:

- 1) 30 Nm

- 2) 90°
- 3) 90°.

Autodata Note 20

Clutch pressure plate

Use new bolts.

M8 - 8.8 = 25 Nm

M8 - 10.9 = 34 Nm

Autodata Note 19

Camshaft carrier/cap

M6 = 10 Nm

M7 = 15 Nm

M8 = 20 Nm.

Autodata Note 18

Camshaft/cover bolts

M6 = 10 Nm

M7 = 15 Nm.

Autodata Note 72

Inlet manifold to cylinder head

M8 = 22 Nm

M7 = 15 Nm

M6 = 10 Nm.

Autodata Note 73

Exhaust manifold to cylinder head

Use new nuts.

M6 = 10 Nm

M7 = 15 Nm

M8 = 23 Nm.

Tightening sequence

