

Country of manufacture	J
Cubic capacity/Power	2.0 / 103 kW
Motor tag	QR20DE
RB key	NIS 1085

Tightening torques

Cylinder head instructions :

Cylinder head

	Renew bolts: Yes
Stage 1	Tighten: 49 Nm
Stage 2	Tighten: 98 Nm
Stage 3	Slacken off: 360°
Stage 4	Tighten: 34-44 Nm
Stage 5	Tighten: 75°-80°
Stage 6	Tighten: 75°-80°

Other engine tightening torques

Main bearings	Renew bolts/nuts: Yes
(1) Main bearings	Stage 1:
Big end bearings	Renew bolts/nuts: Yes
Big end bearings	Stage 1: 18-20 Nm
Big end bearings	Stage 2: 90°-95°
Oil pump to cylinder block	: 7-8 Nm
Sump bolts	: 7-8 Nm
Sump drain bolt	: 29-39 Nm
Flywheel/driveplate	: 103-113 Nm
Clutch pressure plate	: 35-44 Nm
(2) Crankshaft pulley/damper centre bolt	:
Camshaft sprocket/gear	: 127-157 Nm
(3) Camshaft carrier/cap	:
Camshaft/rocker cover	: 7-9 Nm
Inlet manifold to cylinder head	: 18-22 Nm
Exhaust manifold to cylinder head	: 39-44 Nm
Exhaust downpipe to manifold	: 44-55 Nm
Spark plugs	: 20-30 Nm
Crankshaft position (CKP) sensor/engine speed (RPM) sensor	: 5-7 Nm
Camshaft position (CMP) sensor	: 5-7 Nm
Engine coolant temperature (ECT) sensor	: 20-29 Nm
Lambda sensor (Oxygen)	: 40-50 Nm
Knock sensor (KS)	: 16-27 Nm
Engine oil pressure switch	: 12-17 Nm
Chassis tightening torques	
Front hub	: 294 Nm

Rear hub	: 240 Nm
Steering track rod end	: 40-58 Nm
Brake caliper to carrier	Front: 22-31 Nm
Brake caliper carrier to hub	Front: 148-166 Nm
Brake caliper to carrier	Rear: 32-41 Nm
Brake caliper carrier to hub	Rear: 39-51 Nm
ABS sensor	Front: 21 Nm
ABS sensor	Rear: 21 Nm
Road wheels	: 98-117 Nm

Important note

(1)

Main bearings

M10 bolts = tighten in the following stages:

1. 40 Nm
2. 60°

M8 = 25 Nm

(2)

Crankshaft pulley/damper

Tighten in the following stages:

1. 37-47 Nm
2. 60°-66°.

(3)

Camshaft carrier/cap

Fig. 24165

Tighten in the following stages:

1. Bolts 9-11 = 2 Nm
2. Bolts 1-8 = 2 Nm
3. All bolts in order = 6 Nm
4. Bolts 1-11 in order = 9-12 Nm.

