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experience

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or familiar with
some experience

✓✓✓
suitable for competent
DIY mechanics

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for experienced DIY
mechanics

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Specifications

General

Manufacturer's engine codes:

up to model year 2012:

1800 cc 2.0 litre, 16-valve, DOHC

From approximately model year 2013 onward:

1800 cc 2.0 litre, 16-valve, DOHC

CAGA, CAGB, CAGC, CAHA, CAHB and CMEA

CGLC, CGLB, CACA, CABB, CACC, CACD, CMBA, CMFA,
CMPB and CMDB

Maximum outputs:

Engine code CAGA, CMEA, CACA and CMFA

Engine code CAGB and CACB

Engine code CAGC and CACC

Engine code CAHA

Engine code CAHB and CGLB

Engine code CGLC

Engine code CACD and CMPB

Engine code CMBA

Power

100 kW @ 4200 rpm

100 kW @ 4200 rpm

88 kW @ 4200 rpm

129 kW @ 4200 rpm

120 kW @ 4200 rpm

130 kW @ 4200 rpm

110 kW @ 4200 rpm

130 kW @ 4200 rpm

Torque

320 Nm @ 1750 to 2500 rpm

320 Nm @ 1750 to 2500 rpm

320 Nm @ 1750 to 2500 rpm

350 Nm @ 1750 to 2500 rpm

350 Nm @ 1750 to 2500 rpm

340 Nm @ 1750 to 2500 rpm

320 Nm @ 1750 to 2500 rpm

380 Nm @ 1750 to 2500 rpm

Bore

81.0 mm

Stroke

95.0 mm

Compression ratio:

Engine codes CAGA, CAGB, CAGC and CMEA

18.5 : 1

All other engines

16.5 : 1

Compression pressure:

Minimum compression pressure

Approximately 19.0 bar

Maximum difference between cylinders

Approximately 5.0 bar

Firing order

1 - 3 - 4 - 2

No 1 cylinder location

Timing belt end

Note: See 'Vehicle identification' in Reference chapter for the location of engine code markings.

Lubrication system

Oil pump type

Gear type, driven by front balance shaft

Oil pressure switch (green cap)

0.5 bar

Oil pressure switch (brown cap)

0.7 bar

Oil pressure (oil temperature 80°C)

Minimum @ idling

0.8 bar

Minimum @ 2000 rpm

1.4 bar

X20xev Workshop Manual

John Harold Haynes



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Service Dept,1995 Applicable models are FRR33 FSR33 FTR33 FVR33 FVR23 FVM33 FVM23 FVZ23 FSS33 and FTS33

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