

AUDI

90 & Coupé, 2.2E & 4x4

1987 to 1991

Engine & Cooling

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Automotive Technical
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Engine and cooling system

90 & Coupé, 2.2E & 4x4

1987 to 1991

Type		KV (100kW) SOHC
Capacity (cm ³) / number of cylinders		2226 / 5
Compression ratio / pressure	bar	10.0 / ≥8.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-4-5-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		K-Jetronic
Main jet / needle		—
Injection pressure	bar	4.3 to 4.7
Pump pressure	bar	5.4 to 6.2
Octane rating	RON	98[E 98 RON] ¹

Ignition system

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Type		TCI-H
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	N/A
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	18±1 BTDC @ 750 to 850 ¹
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1600 to 1950
	° Crankshaft @ rpm	6 to 12 @ 4800
	° Crankshaft @ rpm	12 to 16 @ 5950
Vacuum range check	mbar	100 to 380
Maximum vacuum advance	° Crankshaft	13 to 15
Spark plugs		Bosch/Champion
Type		W7DTC / N7YCX
Electrode gap	mm	0.70 to 0.90

Electrical system

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Battery	V / CC / RC	12 / 63Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 2000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/60x14:205/50x15:205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1 ²
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-45'±30' ³
Castor		+1°15'±30' ⁴
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±20']. 4x4: [+20'±10']
Camber		-1°±20'. 4x4: -45'±30'

Torque wrench settings

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Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90° N
Front hubs	Nm	265 LkC ⁵
Rear hubs	Nm	WSM ⁶
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities

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Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT & 4x4: 1.0
Cooling system	litres	7.0
Fuel tank	litres	68. Coupé: 70

Notes and Illustrations

¹[E 95 RON], 10-1 BTDC @ 750 to 850

²90: 2.3 / 2.3

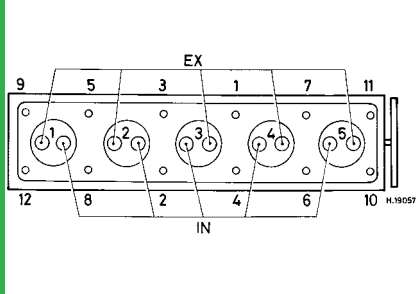
³Coupé & 4x4: -50'±30'

⁴Coupé & 4x4: +1°25'±30'

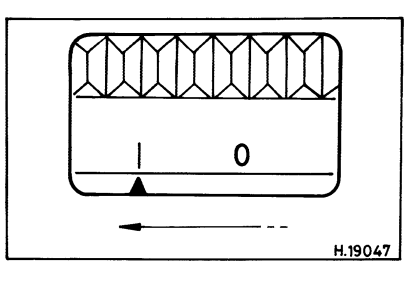
⁵PAS & 4x4 with detachable wheel housing: M14 bolts: 120 + 90°. M16: 200 + 90°

⁶4x4: 320

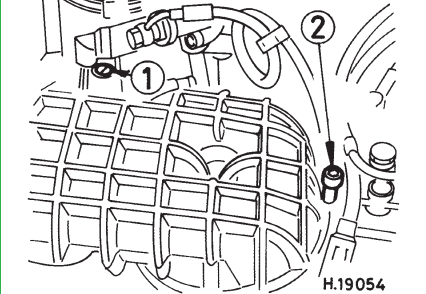
1: Idle speed 2: CO / Mixture



2226 cm³, 10V



2226 cm³, 10V



K-Jetronic, KV