

VOLKSWAGEN

Taro 4x4

1989 to 1994

Engine & Cooling

Fuel

Ignition

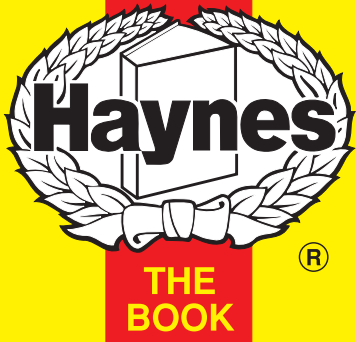
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

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Type		4Y. OHV. 69kW
Capacity (cm ³) / number of cylinders		2237 / 4
Compression ratio / pressure	bar	8.8 / ≥9.0
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.7 to 1.0

Fuel system

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Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	2600±200
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
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		Aisan
Type / ref		2V 21100-73340
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	91[E 95 RON]

Ignition system

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Type		Contact breaker - CIS
Ignition coil		—
Primary resistance	ohms	1.3 to 1.6
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Toyo Denso
Points gap (air gap)	mm	0.45
Dwell angle	° (%)	52±6
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	4 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	16 BTDC @ 850
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 4 @ 1400
	° Crankshaft @ rpm	10 @ 2400
	° Crankshaft @ rpm	22 @ 4800
Vacuum range check	mbar	160 to 413
Maximum vacuum advance	° Crankshaft	18
Spark plugs		Nippon Denso/Champion
Type		W16EXR-U / RN9YC
Electrode gap	mm	0.80

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	90 / 11.5 (no load)
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	205x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.7 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.0±1.0
Camber		+30'±30'
Castor		+1°10'±30'
King pin inclination		+12°5'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

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Cylinder head - stage 1	Nm	12mm bolt: 19
- stage 2	Nm	14mm bolt: 88
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	49
Main bearings	Nm	78
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	83
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	140
Spark plugs	Nm	18

Capacities

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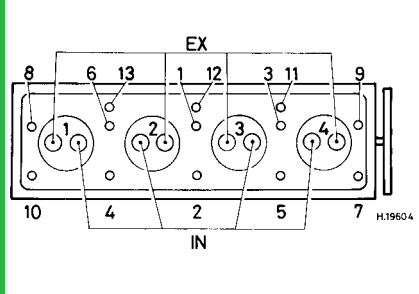
Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.9 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Front: 2.3 ²
Cooling system	litres	7.4
Fuel tank	litres	65

Notes and Illustrations

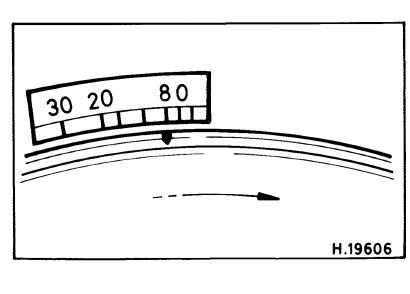
¹Transfer box: 1.6

²Rear: 2.2. Independent front suspension: 1.6

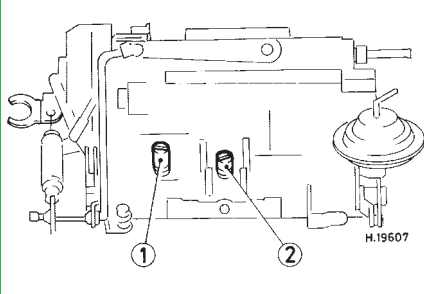
1: Idle speed 2: CO / Mixture



2237 cm³



2237 cm³



Aisan 2V, 2237 cm³