

Engine & Cooling

Fuel

Ignition

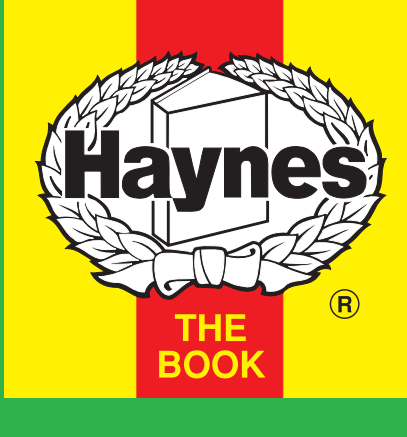
Electrical

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 systemPatrol (160 / 260)1986 to 1990

Type		L28S
Capacity (cm ³) / number of cylinders		2753 / 6
Compression ratio / pressure	bar	8.6 / ≥8.8
Oil pressure	bar	[2.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.25 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.90

Fuel systemPatrol (160 / 260)1986 to 1990

Idle speed - manual [auto]	rpm	650
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Hitachi
Type / ref		DAF342-38
Main jet / needle		126, 210
Injection pressure	bar	—
Pump pressure	bar	0.23 to 0.30
Octane rating	RON	88[R]

Ignition systemPatrol (160 / 260)1986 to 1990

Type		Contact breaker - CIS
Ignition coil		Hitachi. Hanshin
Primary resistance	ohms	1.35 to 1.65
Ballast resistor	ohms	1.6
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	35 to 41
Condenser capacity	µF	0.20 to 0.24
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 650
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	20 @ 3500
Vacuum range check	mbar	333 to 400
Maximum vacuum advance	° Crankshaft	7
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemPatrol (160 / 260)1986 to 1990

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 2500
Starter motor current / voltage - cranking	A / V	60 to 100 / 11.5 (no load)
- locked	A / V	—

Running gearPatrol (160 / 260)1986 to 1990

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	6.50x16: 205x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0
Camber		+30'±30'
Castor		+3°35'±30'
King pin inclination		+7°30'±30'

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

Torque wrench settingsPatrol (160 / 260)1986 to 1990

Cylinder head - stage 1	Nm	70 to 85
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45 to 54
Main bearings	Nm	45 to 54
Clutch cover	Nm	15 to 20
Flywheel [driveplate]	Nm	137 to 157
Front hubs	Nm	167 to 196
Rear hubs	Nm	441 to 490
Wheel nuts / bolts	Nm	118 to 147
Spark plugs	Nm	15 to 20

CapacitiesPatrol (160 / 260)1986 to 1990

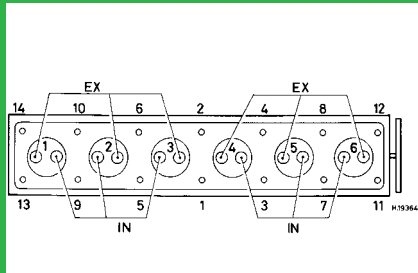
Engine oil & filter	litres	4.2
Gearbox - 4-speed [5-speed]	litres	2.7 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.5 ²
Cooling system	litres	10.8
Fuel tank	litres	82

Notes and Illustrations

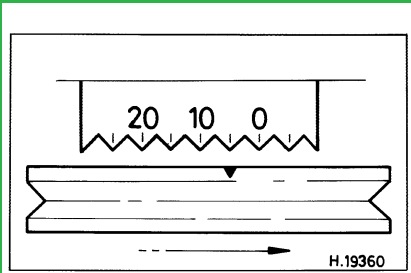
¹Transfer box: 1.8

²Rear: 2.0

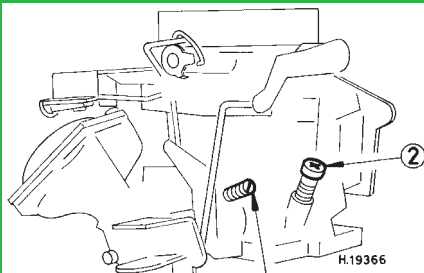
1: Idle speed 2: CO / Mixture



2753 cm³



2753 cm³



Hitachi DAF