

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Patrol (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 system Patrol (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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	–
O ₂ @ 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 system Patrol (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 system Patrol (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 gear Patrol (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 settings Patrol (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

Capacities Patrol (160 / 260) 1986 to 1990

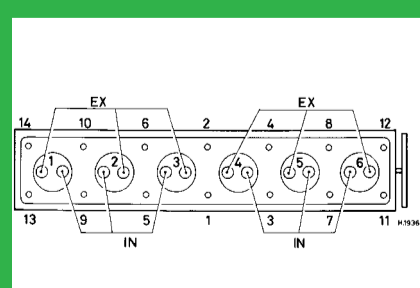
Engine oil & filter	litres	4.2
Gearbox - 4-speed [5-speed]	litres	2.7 ¹
Automatic transmission - refill	litres	–
Final drive	litres	Front: 1.5 ²
Cooling system	litres	10.8
Fuel tank	litres	82

Notes and Illustrations

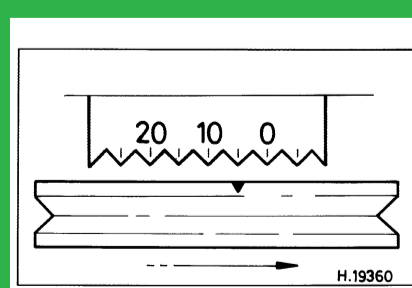
¹Transfer box: 1.8

²Rear: 2.0

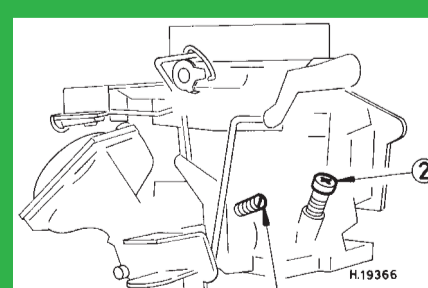
1: Idle speed 2: CO / Mixture



2753 cm³



2753 cm³



Hitachi DAF