

Engine & Cooling

Fuel

Ignition

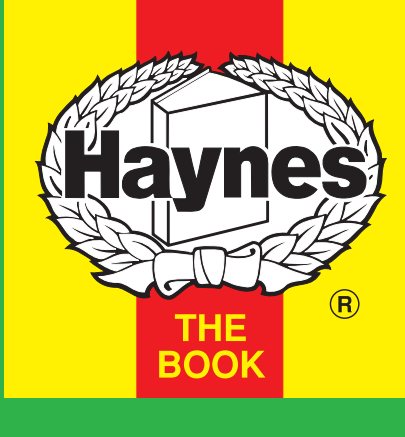
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemPatrol 4.2i (Y60)1992 to 1997

Type		TB42E OHV 128kW
Capacity (cm ³) / number of cylinders		4169 / 6
Compression ratio / pressure	bar	8.5 / ≥8.9
Oil pressure	bar	0.49 [3.9 to 4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.38 H
Valve clearance - exhaust	mm	0.38 H
Firing order		1-5-3-6-2-4
No 1 cylinder position		F
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPatrol 4.2i (Y60)1992 to 1997

Idle speed - manual [auto]	rpm	650±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		ECCS MPI
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemPatrol 4.2i (Y60)1992 to 1997

Type		Electronic
Ignition coil		Hanshin
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static ° Crankshaft @ rpm V = Vacuum NV = No Vacuum		10±1 BTDC @ 650
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BPR5E
Electrode gap	mm	0.80 to 0.90

Electrical systemPatrol 4.2i (Y60)1992 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 60, 70 / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPatrol 4.2i (Y60)1992 to 1997

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

Tyres		
Saloon	Size	—
Estate / Van	Size	265/70x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.0 / 2.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +2.0
Camber		0 to +1° N/A¹
Castor		Hard Top: 2°20' to 3°20' N/A²
King pin inclination		+7°30'±30'³

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

Torque wrench settingsPatrol 4.2i (Y60)1992 to 1997

Cylinder head - stage 1	Nm	29
- stage 2	Nm	57 to 67
Cylinder head - stage 3	Nm	Slacken, then 29
- stage 4	Nm	+69 to 74°
Big-end bearings	Nm	38 to 40 + 40 to 45°
Main bearings	Nm	162 to 172
Clutch cover	Nm	20 to 30
Flywheel [driveplate]	Nm	147 to 167
Front hubs	Nm	167 to 196
Rear hubs	Nm	441 to 490
Wheel nuts / bolts	Nm	118 to 147
Spark plugs	Nm	20 to 29

CapacitiesPatrol 4.2i (Y60)1992 to 1997

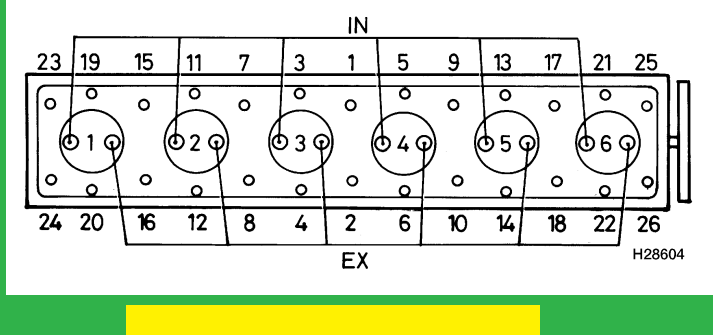
Engine oil & filter	litres	8.2
Gearbox - 4-speed [5-speed]	litres	3.9. Transfer box: 1.9
Automatic transmission - refill	litres	11.8. Transfer box: 1.9
Final drive	litres	Front: 5.4. Rear: 2.1
Cooling system	litres	16.0 [AT: 15.7]
Fuel tank	litres	95

Notes and Illustrations

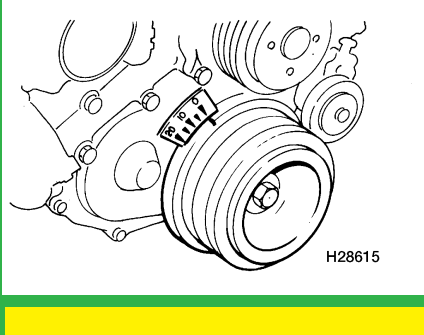
¹8.93 ►: +15' to 1°15'

²Station Wagon: 2°5' to 3°5'. 8.93 ►: Hard Top: 2°5' to 3°35'. Station Wagon: 1°50' to 3°20'

³8.93 ►: 6°45' to 8°15'



4169 cm³



4169 cm³