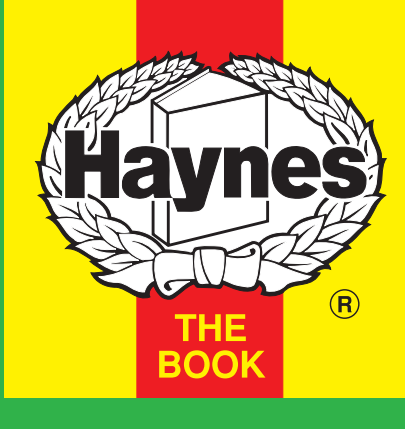


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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 3.0 (Y60)1989 to 1993

Type		RB30
Capacity (cm³) / number of cylinders		2962 / 6
Compression ratio / pressure	bar	9.0 / 12.0
Oil pressure	bar	[3.8 to 4.6]
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-3-6-2-4
No 1 cylinder position		F
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPatrol 3.0 (Y60)1989 to 1993

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—
Type / ref		21J360-32
Main jet / needle		120, 200
Injection pressure	bar	—
Pump pressure	bar	0.23 to 0.30
Octane rating	RON	95[E 95 RON]

Ignition systemPatrol 3.0 (Y60)1989 to 1993

Type		Electronic
Ignition coil		Hanshin
Primary resistance	ohms	0.8 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	3±2 BTDC @ idle
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	21 @ 3100
Vacuum range check	mbar	146 to 240
Maximum vacuum advance	° Crankshaft	7
Spark plugs		NGK
Type		BKR6E
Electrode gap	mm	0.80 to 1.00

Electrical systemPatrol 3.0 (Y60)1989 to 1993

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.8 / 60 / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearPatrol 3.0 (Y60)1989 to 1993

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

Tyres		
Saloon	Size	—
Estate / Van	Size	205x16
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	Refer to handbook

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.0
Camber		+30'±30'
Castor		+3°35'±30'. Hardtop: +3°15'
King pin inclination		+7°30'±30'

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

Torque wrench settingsPatrol 3.0 (Y60)1989 to 1993

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Slacken, then 29
- stage 4	Nm	+ 100 to 105°
Big-end bearings	Nm	15 + 60 to 65°
Main bearings	Nm	45 to 54
Clutch cover	Nm	15 to 20
Flywheel [driveplate]	Nm	142 to 152
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

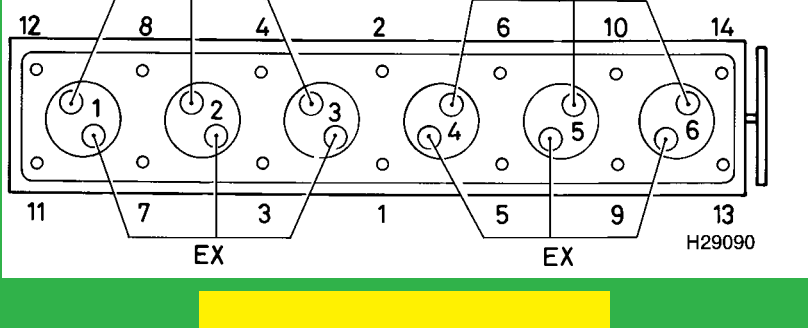
CapacitiesPatrol 3.0 (Y60)1989 to 1993

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	3.6 ¹
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.3 ²
Cooling system	litres	12.9
Fuel tank	litres	82

Notes and Illustrations

¹Transfer box: 1.9

²Rear: 3.0



2962 cm³ 12V