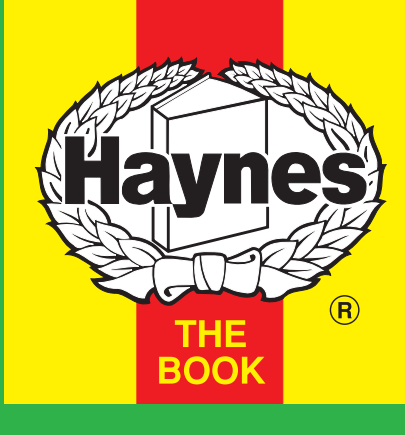




Automotive Technical

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

Monterey 3.2

1992 to 1997

Type		6VD1 DOHC 24V V6 130kW
Capacity (cm ³) / number of cylinders		3165 / 6
Compression ratio / pressure	bar	9.3 / 10.7
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	74.5
Radiator cap pressure	bar	0.80 to 1.10

Fuel system

Monterey 3.2

1992 to 1997

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	2800 to 3200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.6
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		_GM
Type / ref		Delco MPI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Monterey 3.2

1992 to 1997

Type		DIS
Ignition coil		—
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum		
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		BPR6ES-11
Electrode gap	mm	1.05

Electrical system

Monterey 3.2

1992 to 1997

Battery	V / CC / RC	12 / 52, 64Ah
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Monterey 3.2

1992 to 1997

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

Tyres		
Saloon	Size	215/80x16: 245/70x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.0
Camber		0°±30'
Castor		2°10'±45'
King pin inclination		12°30'±30'

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

Torque wrench settings

Monterey 3.2

1992 to 1997

Cylinder head - stage 1	Nm	M8: 21 M11: 65
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	54
Main bearings	Nm	39
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	54
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	18

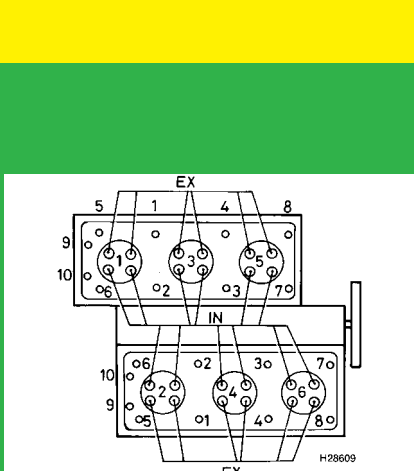
Capacities

Monterey 3.2

1992 to 1997

Engine oil & filter	litres	5.4
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	5.5
Final drive	litres	Front: 1.5 Rear: 1.8
Cooling system	litres	8.6. AT: 8.8
Fuel tank	litres	85

Notes and Illustrations



3165 cm³, 24V