

Engine & Cooling

Fuel

Ignition

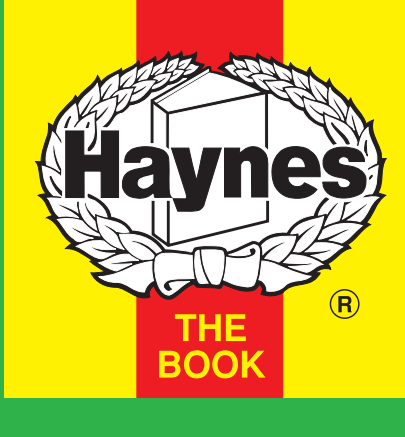
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemStellar1987 to 1991

Type		OHC
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	8.5 / 10.7
Oil pressure	bar	1.5
Oil temperature	°C	—
Valve clearance - inlet	mm	0.15 H
Valve clearance - exhaust	mm	0.25 H
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.88

Fuel systemStellar1987 to 1991

Idle speed - manual [auto]	rpm	700±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.8 to 1.0
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		Changwon
Type / ref		2V
Main jet / needle		102, 140
Injection pressure	bar	—
Pump pressure	bar	0.19 to 0.25
Octane rating	RON	97[E 95 RON]

Ignition systemStellar1987 to 1991

Type		Contact breaker - CIS
Ignition coil		Diamond
Primary resistance	ohms	1.4±10%
Ballast resistor	ohms	1.35±10%
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	0.5±0.05
Dwell angle	° (%)	52±3
Condenser capacity	µF	0.22±0.022
Rotation		—
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	5±1 BTDC @ 700±25
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 2 @ 1000
	° Crankshaft @ rpm	10 to 14 @ 3000
	° Crankshaft @ rpm	18 to 22 @ 4400
Vacuum range check	mbar	53 to 480
Maximum vacuum advance	° Crankshaft	17 to 23
Spark plugs		NGK/Champion
Type		BP5ES / RN12YC
Electrode gap	mm	0.70 to 0.80

Electrical systemStellar1987 to 1991

Battery	V / CC / RC	12 / 400 / 90
Alternator voltage / full load current / engine rpm		14.5±0.1 / _ / 2500
Starter motor current / voltage - cranking	A / V	150 / 9
- locked	A / V	340 / 5.0 [AT: 500 / 5.0]

Running gearStellar1987 to 1991

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

Tyres		
Saloon	Size	165x13: 185/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	165: 1.9 / 1.9¹
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±3.0
Camber		+30'±30'
Castor		+2°42'±30'
King pin inclination		+11°20'

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

Torque wrench settingsStellar1987 to 1991

Cylinder head - stage 1	Nm	69 to 73 C
- stage 2	Nm	OR 79 to 83 H
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	32 to 34
Main bearings	Nm	49 to 53
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	128 to 137
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	Steel: 69 to 78²
Spark plugs	Nm	—

CapacitiesStellar1987 to 1991

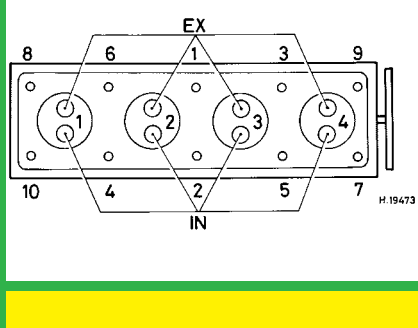
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	6.2
Final drive	litres	1.0
Cooling system	litres	5.0
Fuel tank	litres	54

Notes and Illustrations

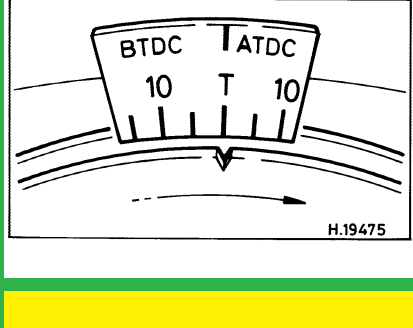
¹185/70: 2.0 / 2.0

²Alloy: 78 to 98

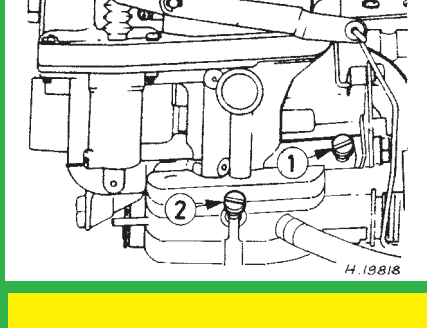
1: Idle speed 2: CO / Mixture



1597 cm³



1597 cm³



Changwon