

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 system Starion 2.6 Turbo CAT 1989 to 1991

Type		G54B-1
Capacity (cm <sup>3</sup> ) / number of cylinders		2555 / 4
Compression ratio / pressure	bar	7.0 / 10.0
Oil pressure	bar	0.8
Oil temperature	°C	80
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	88
Radiator cap pressure	bar	0.76 to 1.04

### Fuel system Starion 2.6 Turbo CAT 1989 to 1991

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Mitsubishi
Type / ref		ECl + Turbo Intercooler
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.55
Octane rating	RON	95[U]

### Ignition system Starion 2.6 Turbo CAT 1989 to 1991

Type		Electronic
Ignition coil		E019
Primary resistance	ohms	1.13 to 1.38
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	[0.80]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13±1 BTDC @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	10 @ 2000
	° Crankshaft @ rpm	33 @ 6000
Vacuum range check	mbar	107 to 373
Maximum vacuum advance	° Crankshaft	23
Spark plugs		NGK/Champion
Type		BPR6ES-11 / RN9YC4
Electrode gap	mm	1.00 to 1.10

### Electrical system Starion 2.6 Turbo CAT 1989 to 1991

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

### Running gear Starion 2.6 Turbo CAT 1989 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0
<b>Tyres</b>		
Saloon	Size	215/60x15:205/55x16:225/50x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±2.5
Camber		-40'±30'
Castor		+5°30'±30'
King pin inclination		—
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		-20'

### Torque wrench settings Starion 2.6 Turbo CAT 1989 to 1991

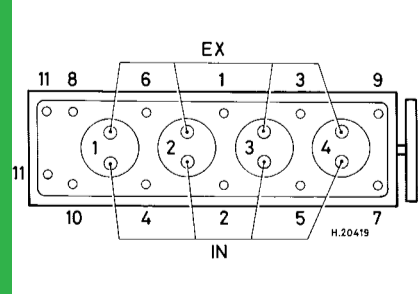
Cylinder head - stage 1	Nm	90 to 100 C
- stage 2	Nm	100 to 110 H
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45 to 48
Main bearings	Nm	75 to 85
Clutch cover	Nm	15 to 21
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	69 to 79
Spark plugs	Nm	20 to 29

### Capacities Starion 2.6 Turbo CAT 1989 to 1991

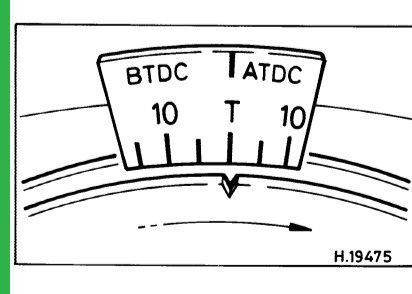
Engine oil & filter	litres	4.2
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	8.7
Fuel tank	litres	75

### Notes and Illustrations

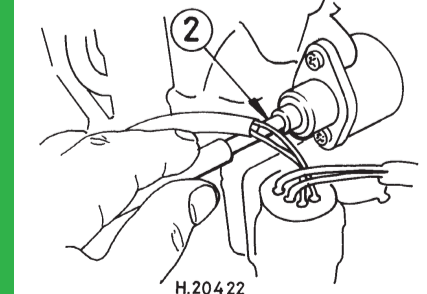
1: Idle speed 2: CO / Mixture



2555 cm<sup>3</sup>



2555 cm<sup>3</sup>



ECl, 2555 cm<sup>3</sup>