

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Starion 2.6 Turbo CAT

1989 to 1991

Type		G54B-1
Capacity (cm ³) / 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 ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Mitsubishi
Type / ref		ECI + 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

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

Tyres		
Saloon	Size	215/60x15:205/55x16:225/50x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.5
Camber		-40'±30'
Castor		+5°30'±30'
King pin inclination		—

Rear suspension / wheel alignment		
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

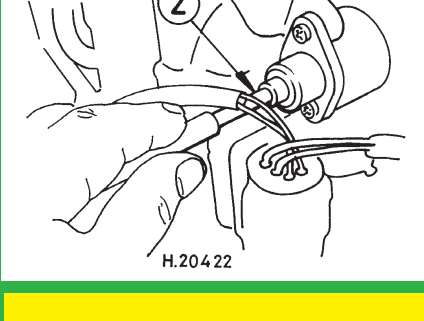
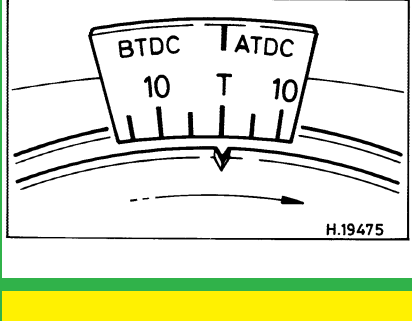
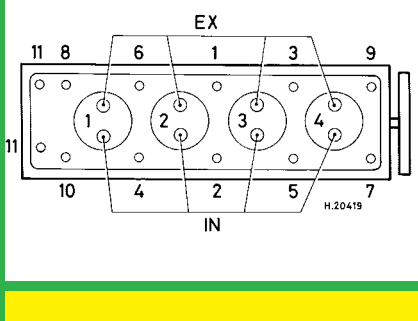
1989 to 1991

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 cm³

2555 cm³

ECi, 2555 cm³