

TVR

390i & 390SE

1987 to 1989

Engine & Cooling

Fuel

Ignition

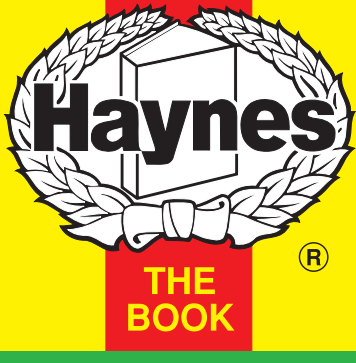
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

390i & 390SE

1987 to 1989

Type		HPD / TVR
Capacity (cm ³) / number of cylinders		3905 / 8
Compression ratio / pressure	bar	10.5 / ≥12.4
Oil pressure	bar	[2.1 to 3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-8-4-3-6-5-7-2
No 1 cylinder position		FL
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system

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1987 to 1989

Idle speed - manual [auto]	rpm	1025±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	2.0±0.5
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		Lucas
Type / ref		L electronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.5 to 2.9
Octane rating	RON	97[L]

Ignition system

390i & 390SE

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Type		Electronic
Ignition coil		Lucas 45296B
Primary resistance	ohms	0.6 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Lucas
Points gap (air gap)	mm	[≥0.15]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	4 to 6 BTDC @ 600
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	30 BTDC @ 5500
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BP7ES / N7YC
Electrode gap	mm	0.60

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	505 to 550 / _

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	225/50x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.5 / 1.7
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.2±1.5
Camber		0±0.5°
Castor		+3.5°±0.5°
King pin inclination		+6°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.5±1.5
Camber		+0.5°±0.5°

Torque wrench settings

390i & 390SE

1987 to 1989

Cylinder head - stage 1	Nm	Nos 1 to 10: 102
- stage 2	Nm	Nos 11 to 14: 47
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	47
Main bearings	Nm	75
Clutch cover	Nm	27
Flywheel [driveplate]	Nm	81
Front hubs	Nm	WSM
Rear hubs	Nm	271
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	15

Capacities

390i & 390SE

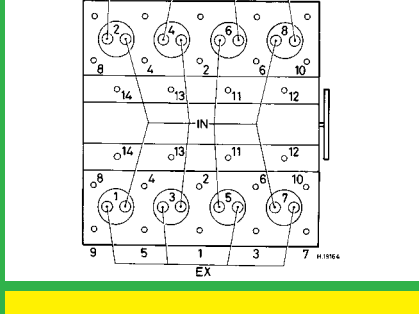
1987 to 1989

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	—
Final drive	litres	1.4
Cooling system	litres	11.0
Fuel tank	litres	61

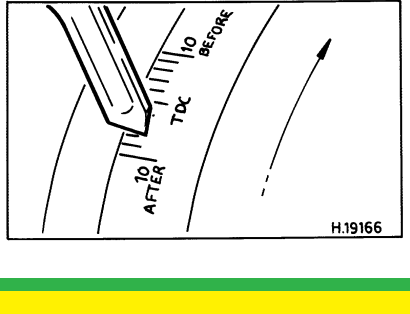
Notes and Illustrations

1: Idle speed

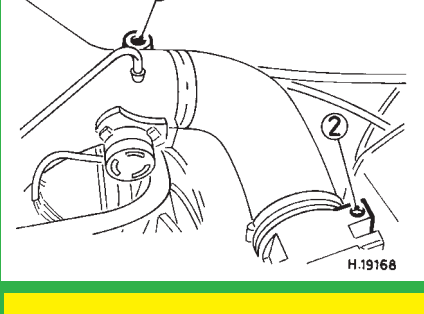
2: CO / Mixture



3905 cm³



3905 cm³



L electronic