

TVR

S (2.9) S2C, S3C, S4C CAT

1990 to 1995

Engine & Cooling

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Automotive Technical
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Engine and cooling system

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1990 to 1995

Type		BRC OHV
Capacity (cm ³) / number of cylinders		1779 / 3
Compression ratio / pressure	bar	9.0 / ≥12.4
Oil pressure	bar	1.0 [2.5]
Oil temperature	°C	80 to 90
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	79 to 83
Radiator cap pressure	bar	1.0

Fuel system

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Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		Ford
Type / ref		EEC-IV
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.7
Octane rating	RON	95[U]

Ignition system

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Type		EEC IV
Ignition coil		Bosch. Femsa. Polmot
Primary resistance	ohms	0.72 to 0.89
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15 BTDC @ 900 ¹
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° 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		Motorcraft/Champion
Type		AGRF32C1, AGRF42C1 / RC7YCC
Electrode gap	mm	1.00

Electrical system

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Battery	V / CC / RC	12 / 630 / 125
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.5 / 1.5
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+0.5°±0.25°]
Camber		+1°±0.25°
Castor		+3.5°±0.5°
King pin inclination		+13°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+0.25°±0.25°]
Camber		+1.25°±0.25°

Torque wrench settings

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Cylinder head - stage 1	Nm	35 to 41
- stage 2	Nm	71 to 75
- stage 3	Nm	Wait 5 minutes
- stage 4	Nm	+ 90°
Big-end bearings	Nm	35 to 41
Main bearings	Nm	89 to 104
Clutch cover	Nm	18 to 20
Flywheel [driveplate]	Nm	65 to 71
Front hubs	Nm	274 to 315
Rear hubs	Nm	251 to 290
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	30 to 40

Capacities

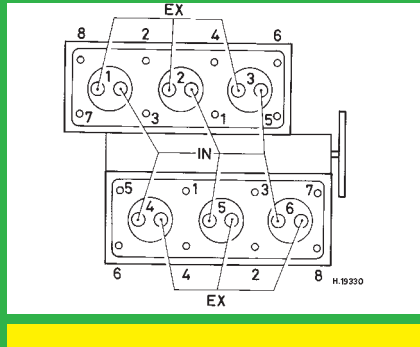
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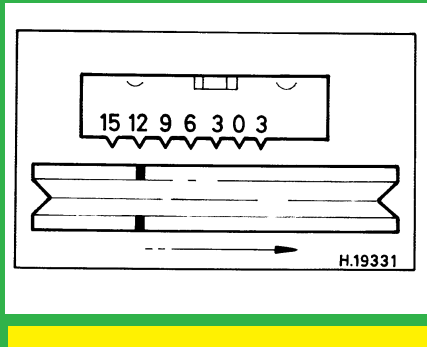
Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	1.3
Automatic transmission - refill	litres	—
Final drive	litres	1.4
Cooling system	litres	10.2
Fuel tank	litres	54.5

Notes and Illustrations

¹In service set mode 60 only



2936 cm³



2936 cm³