

TOYOTA

Camry 4x4 (SV25)

1988 to 1989

Engine & Cooling

Fuel

Ignition

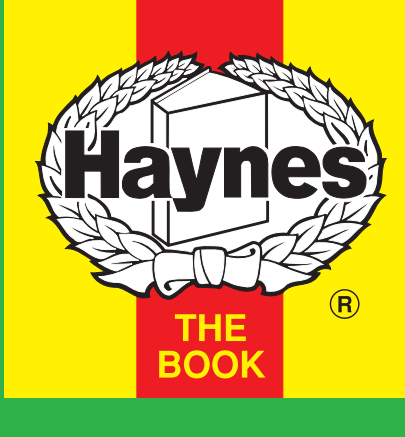
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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Type		3S-FE
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	0.3 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.19 to 0.29
- exhaust	mm	0.28 to 0.38
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.75 to 1.00

Fuel system

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Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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		Toyota
Type / ref		Electronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.7 to 3.0
Octane rating	RON	95[E 95 RON]

Ignition system

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Type		Electronic
Ignition coil		Denso
Primary resistance	ohms	0.38 to 0.46
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Toyo Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Electronic control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Electronic control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		NGK/Champion
Type		BCPR6EY11 / RN9YC4
Electrode gap	mm	1.1

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.1 / _ / 3000
Starter motor current / voltage - cranking	A / V	90 / 11.5 (no load)
- locked	A / V	_

Running gear

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

Tyres		
Saloon	Size	185/70x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		+35'±45'
Castor		+1°40'±30'
King pin inclination		+12°40'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0
Camber		-15'±45'

Torque wrench settings

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Cylinder head - stage 1	Nm	20 ¹
- stage 2	Nm	40 ¹
- stage 3	Nm	64 ¹
- stage 4	Nm	_
Big-end bearings	Nm	49
Main bearings	Nm	59
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	83 N
Front hubs	Nm	186 ²
Rear hubs	Nm	186
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

Capacities

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1988 to 1989

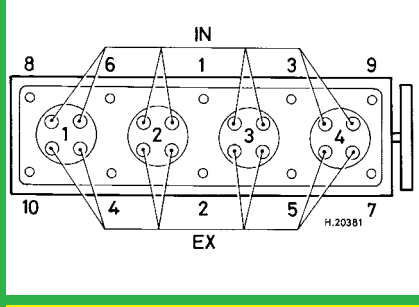
Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	5.2
Automatic transmission - refill	litres	_
Final drive	litres	Rear: 1.1
Cooling system	litres	6.4
Fuel tank	litres	60

Notes and Illustrations

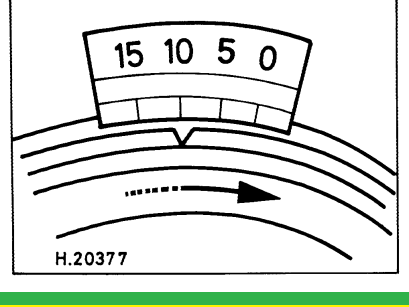
¹Engine no. 6212539 ►: 29 oiled, then 49 + 90°

²If noisy, retighten to 273

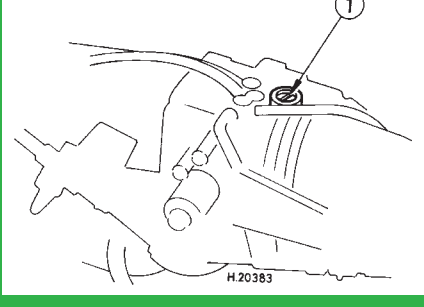
1: Idle speed 2: CO / Mixture



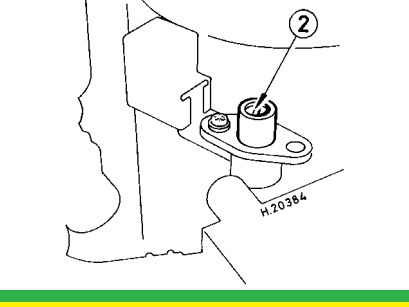
1998 cm³



1998 cm³



Fuel injection, 3S-FE



Fuel injection, 3S-FE