

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system Camry 4x4 (SV25) 1988 to 1989

Type		3S-FE
Capacity (cm <sup>3</sup> ) / 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 Camry 4x4 (SV25) 1988 to 1989

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
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		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 Camry 4x4 (SV25) 1988 to 1989

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 Camry 4x4 (SV25) 1988 to 1989

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 Camry 4x4 (SV25) 1988 to 1989

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
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 Camry 4x4 (SV25) 1988 to 1989

Cylinder head - stage 1	Nm	20 <sup>1</sup>
- stage 2	Nm	40 <sup>1</sup>
- stage 3	Nm	64 <sup>1</sup>
- 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 <sup>2</sup>
Rear hubs	Nm	186
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

## Capacities Camry 4x4 (SV25) 1988 to 1989

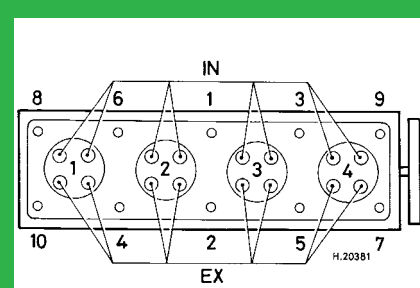
Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	5.2
Automatic transmission - refill	litres	_
Final drive	litres	Rear: 1.1
Cooling system	litres	6.4
Fuel tank	litres	60

## Notes and Illustrations

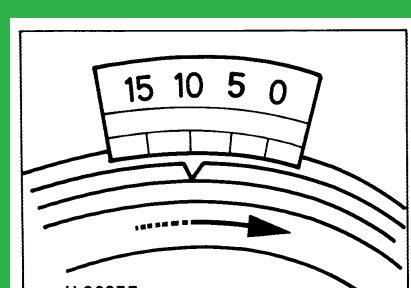
<sup>1</sup>Engine no. 6212539 ▶: 29 oiled, then 49 + 90°

<sup>2</sup>If noisy, retighten to 273

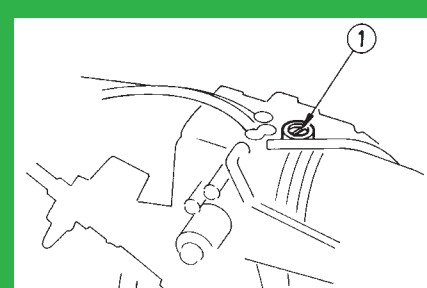
1: Idle speed 2: CO / Mixture



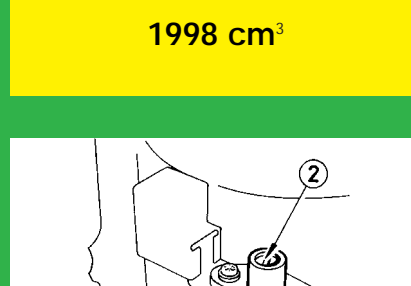
1998 cm<sup>3</sup>



1998 cm<sup>3</sup>



Fuel injection, 3S-FE



Fuel injection, 3S-FE