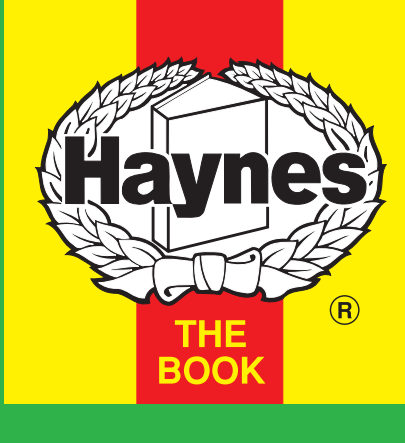




Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Camry 3.0i V6 (VCV10)

1991 to 1996

Type		3VZ-FE DOHC 24V 138kW
Capacity (cm ³) / number of cylinders		2959 / 6
Compression ratio / pressure	bar	9.6 / ≥9.8
Oil pressure	bar	[3.0 to 5.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.23
- exhaust	mm	0.27 to 0.37
Firing order		1-2-3-4-5-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.93 to 1.23

Fuel system

Camry 3.0i V6 (VCV10)

1991 to 1996

Idle speed - manual [auto]	rpm	700±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0 to 0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Toyota
Type / ref		MPI (L-Jetronic) TCCS
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.6 to 3.0
Octane rating	RON	95[U]

Ignition system

Camry 3.0i V6 (VCV10)

1991 to 1996

Type		TCCS - IIA
Ignition coil		—
Primary resistance	ohms	0.2 to 0.3
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 @ 700±50 ¹
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	10 to 20 BTDC @ 700±50
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	TCCS - ESA
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	TCCS - ESA
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BCPREP-11
Electrode gap	mm	1.10

Electrical system

Camry 3.0i V6 (VCV10)

1991 to 1996

Battery	V / CC / RC	12 / 80Ah
Alternator voltage / full load current / engine rpm		14.0 to 15.0 / 80 / 2000
Starter motor current / voltage - cranking	A / V	90 / 11.5
- locked	A / V	—

Running gear

Camry 3.0i V6 (VCV10)

1991 to 1996

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

Tyres		
Saloon	Size	195/70x14: 205/65x15
Estate / Van	Size	195/70x14: 205/65x15
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	2.5 / 2.8 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±2.0
Camber		-30'±45'. Estate: -34'±45'
Castor		+1°15'±45'. Estate +47'±45'
King pin inclination		+12°55'±45'. Estate 12°59'±45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+4.0±2.0
Camber		-20'±45'. Estate: -8'±45'

Torque wrench settings

Camry 3.0i V6 (VCV10)

1991 to 1996

Cylinder head - stage 1	Nm	34
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	25 + 90°
Main bearings	Nm	61 + 90°
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	83 N
Front hubs	Nm	294
Rear hubs	Nm	123
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

Capacities

Camry 3.0i V6 (VCV10)

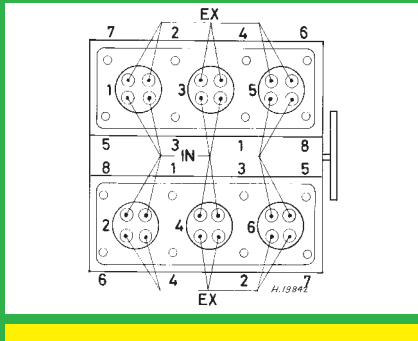
1991 to 1996

Engine oil & filter	litres	4.4
Gearbox - 4-speed [5-speed]	litres	4.2
Automatic transmission - refill	litres	6.5
Final drive	litres	AT: 0.8
Cooling system	litres	8.5 [AT: 8.4]
Fuel tank	litres	70

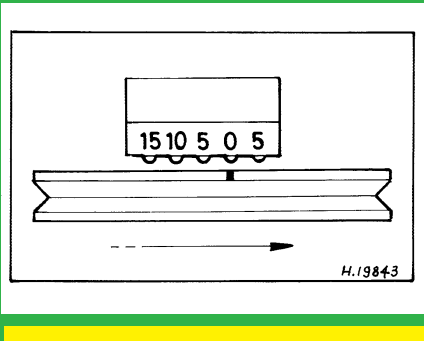
Notes and Illustrations

¹TE1 & E1 shorted

²205/65x15: 2.7 / 3.0



2959 cm³



2959 cm³