TOYOTA

Previa / Tarago (TCR1*,2*)

1990 to 1997

Haynes THE BOOK

Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system

Previa / Tarago (TCR1*,2*) 1990 to 1997

Type		2TZ-FE DOHC 16V 99kW
Capacity (cm³) / number of cylinders		2438 / 4
Compression ratio / pressure	bar	9.3 / ≥8.8
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0.15 to 0.25
- exhaust	mm	0.25 to 0.35
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	ºC	80 to 84
Radiator cap pressure	bar	0.74 to 1.03

Fuel system

Previa / Tarago (TCR1*,2*) 1990 to 1997

Idle speed - manual [auto]	rpm	700±50 [750±50] N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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		Toyota
Type / ref		ECCS Electronic
Main jet / needle		_
Injection pressure	bar	2.6 to 3.0
Pump pressure	bar	2.7 to 3.0
Octane rating	RON	95[U]

Ignition system

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Type		Computerized
Ignition coil		_
Primary resistance	ohms	0.4 to 0.5
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Toyo Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	5 BTDC @ idle[1]
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	12 BTDC @ idle
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		NGK
Type		BKR5EP-11
Electrode gap	mm	1.10

Electrical system

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Battery	V / CC / RC	12 / 50Ah
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	_
Estate / Van	Size	205/70x14: 215/65x15
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.5 / 2.5
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+2.0±1.0[2]
Camber		+5'±30'. 4x4: +15'±30'
Castor		+5°30'±30'. 4x4: +5°20'±30'
King pin inclination		+10°35'±30'. 4x4: +10°20'±30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+1.6±1.0[3]
Camber		+30'±45'. 4x4: +45'±45'

Torque wrench settings

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Cylinder head - stage 1	Nm	39
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	29 + 90°
Main bearings	Nm	39 + 90°
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	88 [74]
Front hubs	Nm	199. 4x4: 186
Rear hubs	Nm	IRS: 275
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

Capacities

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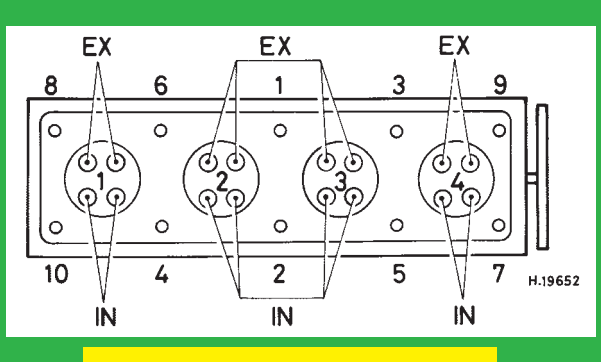
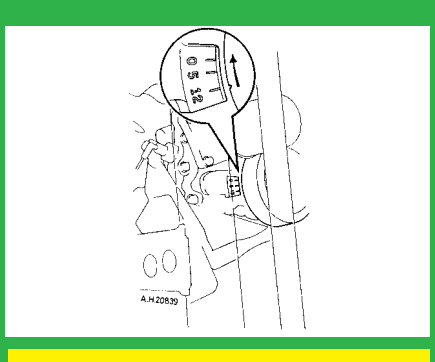
Engine oil & filter	litres	5.8
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 2.6
Automatic transmission - refill	litres	2.3
Final drive	litres	WT[4]
Cooling system	litres	11.6
Fuel tank	litres	60, 75

Notes and Illustrations

[1]TE1 & E1 shorted
[2]4x4: +3.0±1.0
[3]4x4: +1.2±1.0
[4]4x4: Front: 1.1. Rear: 1.5. Rear IRS: 1.1. Transfer: 1.3



2438 cm³



2438 cm³