

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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

Type		2TZ-FE DOHC 16V 99kW
Capacity (cm ³) / number of cylinders		2438 / 4
Compression ratio / pressure	bar	9.3 / ≥8.8
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	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	°C	80 to 84
Radiator cap pressure	bar	0.74 to 1.03

Fuel systemPrevia / 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 systemPrevia / Tarago (TCR1*,2*)1990 to 1997

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	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ idle ¹
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	12 BTDC @ idle
	° 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		NGK
Type		BKR5EP-11
Electrode gap	mm	1.10

Electrical systemPrevia / Tarago (TCR1*,2*)1990 to 1997

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

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 [°]	+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 [°]	+1.6±1.0 ³
Camber		+30'±45'. 4x4: +45'±45'

Torque wrench settingsPrevia / Tarago (TCR1*,2*)1990 to 1997

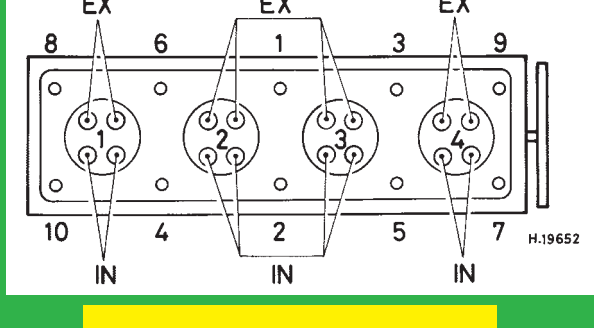
Cylinder head - stage 1	Nm	39
- stage 2	Nm	+ 90°
- stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	29 + 90°
Main bearings	Nm	39 + 90°
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	88 [74]
Front hubs	Nm	199. 4x4: 186
Rear hubs	Nm	IRS: 275
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

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

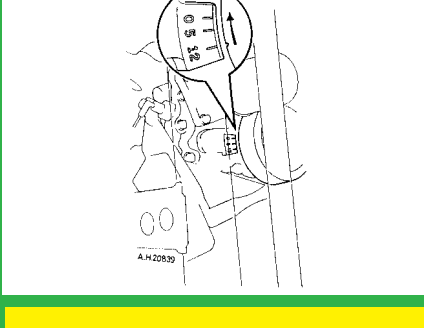
Engine oil & filter	litres	5.8
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 2.6
Automatic transmission - refill	litres	2.3
Final drive	litres	WT ⁴
Cooling system	litres	11.6
Fuel tank	litres	60, 75

Notes and Illustrations

- ¹TE1 & E1 shorted
- ²4x4: +3.0±1.0
- ³4x4: +1.2±1.0
- ⁴4x4: Front: 1.1. Rear: 1.5. Rear IRS: 1.1. Transfer: 1.3



2438 cm³



2438 cm³