

TOYOTA

Tercel 4x4 (AL25)

1983 to 1988

Engine & Cooling

Fuel

Ignition

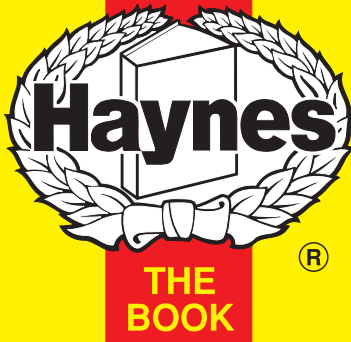
Electrical

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Automotive Technical
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Engine and cooling system

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Type		3A
Capacity (cm ³) / number of cylinders		1452 / 4
Compression ratio / pressure	bar	9.0 / ≥8.8
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20 H
- exhaust	mm	0.30 H
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 to 850
Fast idle speed - manual [auto]	rpm	3000±200
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
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		Aisan
Type / ref		21100-14100
Main jet / needle		99, 156
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	97[E] ¹

Ignition system

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Type		Contact breaker - CIS
Ignition coil		Toyo Denso.
Primary resistance	ohms	1.3 to 1.6
Ballast resistor	ohms	1.3 to 1.5
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Toyo Denso
Points gap (air gap)	mm	0.45
Dwell angle	° (%)	49 to 55
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	7±2 BTDC @ 900
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	6 @ 1600
	° Crankshaft @ rpm	12 @ 3000
	° Crankshaft @ rpm	23 @ 6000
Vacuum range check	mbar	155 to 272
Maximum vacuum advance	° Crankshaft	13
Spark plugs		NGK/Champion
Type		BPR5EY / RN11YC4
Electrode gap	mm	1.0

Electrical system

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Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 2500
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	155x13: 175/70x13
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	155: 1.9 / 1.9 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		+55'±30'
Castor		+2°25'±30'
King pin inclination		+11°40'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

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Cylinder head - stage 1	Nm	54 to 64 in stages
- stage 2	Nm	—
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	34 to 44
Main bearings	Nm	53 to 65
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	74 to 83
Front hubs	Nm	186
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	—
Spark plugs	Nm	15 to 21

Capacities

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Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	3.9
Automatic transmission - refill	litres	—
Final drive	litres	Rear: 1.0
Cooling system	litres	5.3
Fuel tank	litres	50

Notes and Illustrations

¹►08.84, [E 95 RON]. 08.84 ►: [RA]: retard ignition 2 to 3

²175/70: 1.8 / 1.8

1: Idle speed 2: CO / Mixture

1452 cm³

1452 cm³

Aisan 21100

Aisan 21100-14100