

TOYOTA

Lite-Ace (KM36)

1986 to 1991

Engine & Cooling

Fuel

Ignition

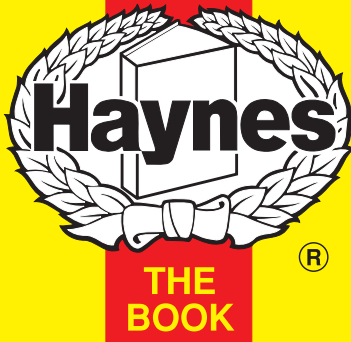
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Lite-Ace (KM36)

1986 to 1991

Type		5K
Capacity (cm ³) / number of cylinders		1486 / 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	0.13
- exhaust	mm	0.23
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 system

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Idle speed - manual [auto]	rpm	750
Fast idle speed - manual [auto]	rpm	3200
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		2V
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	91[R]

Ignition system

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Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.3 to 1.6
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Nippon 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
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1500
	° Crankshaft @ rpm	12 to 15 @ 3100
	° Crankshaft @ rpm	20 to 23 @ 5000
Vacuum range check	mbar	107 to 480
Maximum vacuum advance	° Crankshaft	11 to 13
Spark plugs		NGK/Champion
Type		BPR5EY / RN9YC
Electrode gap	mm	0.80

Electrical system

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Battery	V / CC / RC	12 / 36Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	50 to 55 / 11.0 (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	165x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.7 / 2.7

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0
Camber		-25'±30'
Castor		+1°40'±30'
King pin inclination		+10°5'±45'

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

Torque wrench settings

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Cylinder head - stage 1	Nm	14
- stage 2	Nm	27
- stage 3	Nm	54 to 64
- stage 4	Nm	—
Big-end bearings	Nm	39 to 50
Main bearings	Nm	54 to 64
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	54 to 64
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	15 to 20

Capacities

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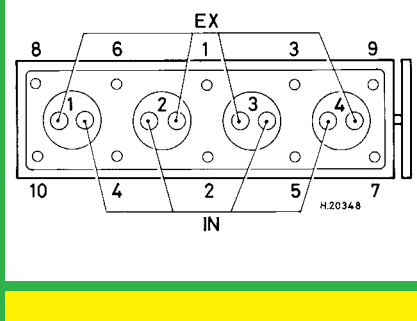
1986 to 1991

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	1.9 [2.2]
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	6.5
Fuel tank	litres	48

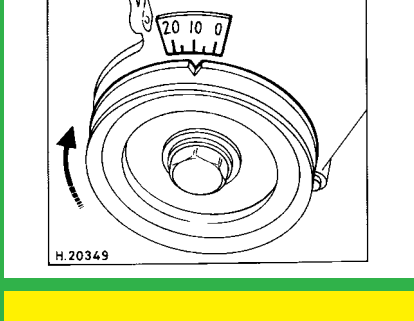
Notes and Illustrations

1: Idle speed

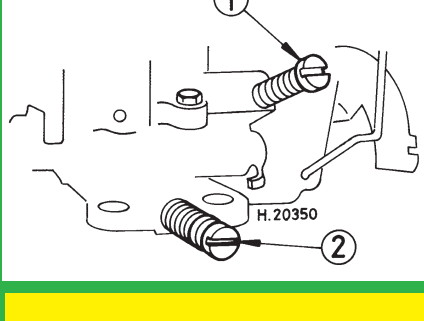
2: CO / Mixture



1486 cm³



1486 cm³



Aisan 2V