

TOYOTA

Hi-Lux 2WD (YN85)

1989 to 1991

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Hi-Lux 2WD (YN85)

1989 to 1991

Type		2Y
Capacity (cm ³) / number of cylinders		1812 / 4
Compression ratio / pressure	bar	8.8 / ≥8.8
Oil pressure	bar	[2.5 to 4.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.70 to 1.00

Fuel system

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Idle speed - manual [auto]	rpm	700±50. PAS: 800±50
Fast idle speed - manual [auto]	rpm	2600
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		2V. 21100-72270
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	91[E 95 RON]

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		Toyo Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1400
	° Crankshaft @ rpm	5.6 @ 2200
	° Crankshaft @ rpm	19 @ 3900
Vacuum range check	mbar	107 to 329
Maximum vacuum advance	° Crankshaft	19
Spark plugs		NGK/Champion
Type		BPR5EY / RN9YC
Electrode gap	mm	0.80

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 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	185x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 1.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+14.4±1.0 ¹
Camber		+41'±30' ²
Castor		+35'±30' ³
King pin inclination		+9°48'±45' ⁴

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

Torque wrench settings

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Cylinder head - stage 1	Nm	12mm bolt: 19
- stage 2	Nm	14mm bolt: 88
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	49
Main bearings	Nm	78
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	83 [74]
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	103
Spark plugs	Nm	18

Capacities

Hi-Lux 2WD (YN85)

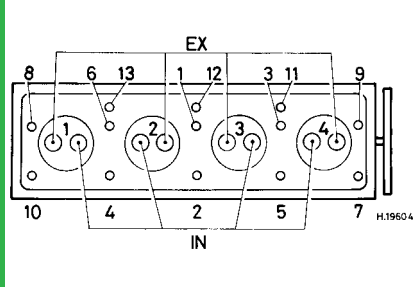
1989 to 1991

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	G40: 2.2 ⁵
Automatic transmission - refill	litres	2.4
Final drive	litres	1.8
Cooling system	litres	7.0
Fuel tank	litres	65

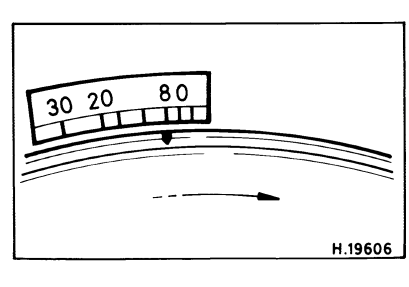
Notes and Illustrations

- ¹Models TRKRS, TRMRS only. PRMRS, PRKRS: +13.3±1.0 TRMDSW, TRKRSQ: +12.8±1.0
- ²Models TRKRS, TRMRS only. PRMRS, PRKRS, TRMDSW, TRKRSQ: -40'±30'
- ³Models TRKRS, TRMRS only. PRMRS, PRKRS, TRKRSQ: +41'±30'. TRMDSW: +45'±30'
- ⁴Models PRMRS, PRKRS, TRMDSW, TRKRSQ: +9°49'±45'
- ⁵L40: 1.9. G52, 54, 58: 2.4

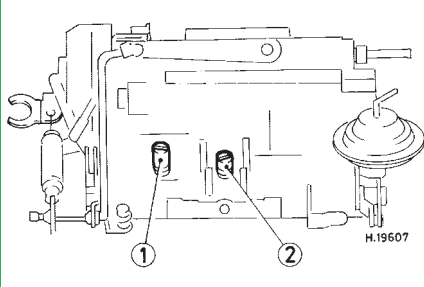
1: Idle speed 2: CO / Mixture



1812 cm³



1812 cm³



Aisan 2V