

TOYOTA

Land Cruiser 4.5

1995 to 1997

Engine & Cooling

Fuel

Ignition

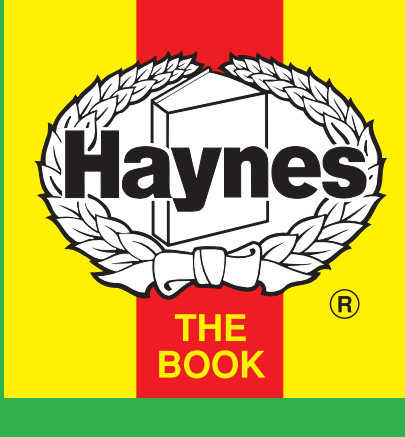
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Automotive Technical  
DATA BOOK

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Engine and cooling system

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|                                                   |     |                  |
|---------------------------------------------------|-----|------------------|
| Type                                              |     | 1FZ-FE 24V 151kW |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 4477 / 6         |
| Compression ratio / pressure                      | bar | 9.0 / _          |
| Oil pressure                                      | bar | 0.3 [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                                      |     | 1-5-3-6-2-4      |
| No 1 cylinder position                            |     | TCE              |
| Thermostat opening temperature                    | °C  | 74 to 78         |
| Radiator cap pressure                             | bar | 0.75 to 1.00     |

Fuel system

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|                                           |     |             |
|-------------------------------------------|-----|-------------|
| Idle speed - manual [auto]                | rpm | 650±50 N/A  |
| Fast idle speed - manual [auto]           | rpm | _           |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5±0.5 WSM |
| 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                                |     | MPI         |
| Main jet / needle                         |     | _           |
| Injection pressure                        | bar | 2.7 to 3.1  |
| Pump pressure                             | bar | _           |
| Octane rating                             | RON | 95[U]       |

Ignition system

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|                                 |                    |                     |
|---------------------------------|--------------------|---------------------|
| Type                            |                    | Computerized        |
| Ignition coil                   |                    | _                   |
| Primary resistance              | ohms               | _                   |
| Ballast resistor                | ohms               | _                   |
| Voltage - Tmnl 15(+) to earth   | V                  | _                   |
| Distributor                     |                    | _                   |
| Points gap (air gap)            | mm                 | _                   |
| Dwell angle                     | ° (%)              | _                   |
| Condenser capacity              | µF                 | _                   |
| Rotation                        |                    | _                   |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 3 BTDC @ 650±50 WSM |
| V = Vacuum NV = No Vacuum       |                    | _                   |
| Total ignition advance          | ° Crankshaft @ rpm | Computer control    |
|                                 | ° 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                     |                    | Nippon Denso/NGK    |
| Type                            |                    | K16RU / BKR5EYA     |
| Electrode gap                   | mm                 | 0.80                |

Electrical system

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|                                                     |             |                       |
|-----------------------------------------------------|-------------|-----------------------|
| Battery                                             | V / CC / RC | 2x12 / 80Ah           |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 15.0 / 55 / _ |
| Starter motor current / voltage - cranking          | A / V       | _                     |
| - 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 | 275/70x16 |
| Pressure - front / rear - Saloon | bar  | _         |
| - Estate / Van                   | bar  | 2.2 / 2.2 |

Front suspension / wheel alignment

|                          |        |          |
|--------------------------|--------|----------|
| Toe-in (+) / Toe-out (-) | mm [°] | +2.0±2.0 |
| Camber                   |        | +1°±45'  |
| Castor                   |        | 3°±1°    |
| King pin inclination     |        | 13°±45'  |

Rear suspension / wheel alignment

|                          |        |   |
|--------------------------|--------|---|
| Toe-in (+) / Toe-out (-) | mm [°] | _ |
| Camber                   |        | _ |

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 | 48 + 90°        |
| Main bearings           | Nm | 74 + 90°        |
| Clutch cover            | Nm | _               |
| Flywheel [driveplate]   | Nm | 100             |
| Front hubs              | Nm | WSM             |
| Rear hubs               | Nm | WSM             |
| Wheel nuts / bolts      | Nm | 147. Alloy: 103 |
| Spark plugs             | Nm | 39              |

Capacities

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|                                 |        |                      |
|---------------------------------|--------|----------------------|
| Engine oil & filter             | litres | 7.4                  |
| Gearbox - 4-speed [5-speed]     | litres | _                    |
| Automatic transmission - refill | litres | 2.7. Transfer: 1.8   |
| Final drive                     | litres | Front: 2.7 Rear: 2.8 |
| Cooling system                  | litres | 13.2                 |
| Fuel tank                       | litres | 95                   |

Notes and Illustrations

