

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemVitara EFI1991 to 1997

|                                                   |     |                    |
|---------------------------------------------------|-----|--------------------|
| Type                                              |     | SOHC 16V 71kW G16B |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1590 / 4           |
| Compression ratio / pressure                      | bar | 9.5 / ≥12.0        |
| Oil pressure                                      | bar | [3.6 to 4.4]       |
| Oil temperature                                   | °C  | 80                 |
| Valve clearance - inlet                           | mm  | 0.08               |
| - exhaust                                         | mm  | 0.12               |
| Firing order                                      |     | 1-3-4-2            |
| No 1 cylinder position                            |     | TBE                |
| Thermostat opening temperature                    | °C  | 82 or 88           |
| Radiator cap pressure                             | bar | 0.90               |

Fuel systemVitara EFI1991 to 1997

|                                           |     |                 |
|-------------------------------------------|-----|-----------------|
| Idle speed - manual [auto]                | rpm | 850±50 [900±10] |
| Fast idle speed - manual [auto]           | rpm | —               |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.5            |
| 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              |     | Suzuki          |
| Type / ref                                |     | MPI             |
| Main jet / needle                         |     | —               |
| Injection pressure                        | bar | —               |
| Pump pressure                             | bar | —               |
| Octane rating                             | RON | 95[U]           |

Ignition systemVitara EFI1991 to 1997

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Electronic        |
| Ignition coil                   |                    | —                 |
| Primary resistance              | ohms               | 0.9 to 1.1        |
| Ballast resistor                | ohms               | —                 |
| Voltage - Tmnl 15(+) to earth   | V                  | —                 |
| Distributor                     |                    | —                 |
| Points gap (air gap)            | mm                 | [0.20 to 0.40]    |
| Dwell angle                     | ° (%)              | —                 |
| Condenser capacity              | µF                 | —                 |
| Rotation                        |                    | —                 |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5±1 BTDC @ 800±50 |
| V = Vacuum NV = No Vacuum       |                    | V                 |
| 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                     |                    | NGK               |
| Type                            |                    | BKR6E             |
| Electrode gap                   | mm                 | 0.70 to 0.80      |

Electrical systemVitara EFI1991 to 1997

|                                                     |             |                               |
|-----------------------------------------------------|-------------|-------------------------------|
| Battery                                             | V / CC / RC | 12 / 36Ah                     |
| Alternator voltage / full load current / engine rpm |             | 14.4 to 15.0 / 50 / 3000      |
| Starter motor current / voltage - cranking          | A / V       | 300 / 7.7 or 150 / 9.0        |
| - locked                                            | A / V       | 980 / 4.4 or 380 to 500 / 5.0 |

Running gearVitara EFI1991 to 1997

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 8.0 with backing |
| Rear (min. friction material thickness)  | mm | 3.0 with backing |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | —         |
| Estate / Van                     | Size | 195x15    |
| Pressure - front / rear - Saloon | bar  | —         |
| - Estate / Van                   | bar  | 1.6 / 1.6 |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (–)           | mm [°] | +2.0 to +6.0 |
| Camber                             |        | +30'±1°      |
| Castor                             |        | +1°30'±1°    |
| King pin inclination               |        | —            |

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

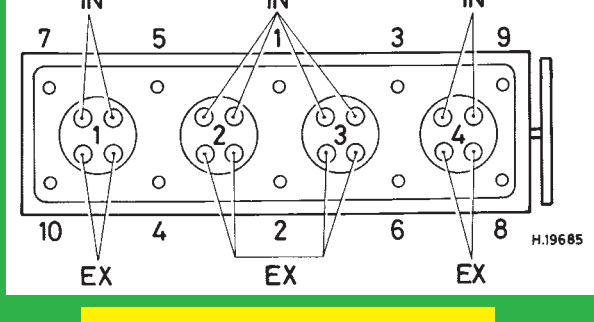
Torque wrench settingsVitara EFI1991 to 1997

|                         |    |            |
|-------------------------|----|------------|
| Cylinder head - stage 1 | Nm | 35         |
| - stage 2               | Nm | 55         |
| - stage 3               | Nm | 65 to 70   |
| - stage 4               | Nm | —          |
| Big-end bearings        | Nm | 33 to 37   |
| Main bearings           | Nm | 50 to 57   |
| Clutch cover            | Nm | 18 to 28   |
| Flywheel [driveplate]   | Nm | 75 to 80   |
| Front hubs              | Nm | 120 to 170 |
| Rear hubs               | Nm | 120 to 200 |
| Wheel nuts / bolts      | Nm | 50 to 80   |
| Spark plugs             | Nm | 25 to 30   |

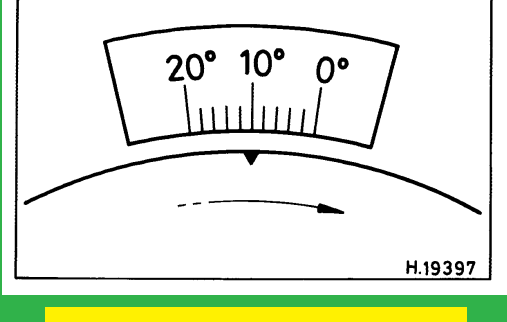
CapacitiesVitara EFI1991 to 1997

|                                 |        |                       |
|---------------------------------|--------|-----------------------|
| Engine oil & filter             | litres | 4.5                   |
| Gearbox - 4-speed [5-speed]     | litres | 1.5. Transfer: 1.7    |
| Automatic transmission - refill | litres | 2.0                   |
| Final drive                     | litres | Front: 1.0. Rear: 2.2 |
| Cooling system                  | litres | 5.1 [AT: 5.0]         |
| Fuel tank                       | litres | 42. 5D: 55            |

Notes and Illustrations



1590 cm<sup>3</sup>, 16V



1590 cm<sup>3</sup>, 16V