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## Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Sumo 1.0 1988 to 1995

|   |     |              |
|---|-----|--------------|
| Type  |     | SOHC         |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 997 / 3      |
| Compression ratio / pressure                      | bar | 9.5 / _      |
| Oil pressure                                      | bar | [2.1 to 3.2] |
| Oil temperature                                   | °C  | _            |
| Valve clearance - inlet                           | mm  | 0.13 to 0.17 |
| - exhaust   | mm  | 0.23 to 0.27 |
| Firing order                                      |     | 1-3-2        |
| No 1 cylinder position                            |     | TBE          |
| Thermostat opening temperature                    | °C  | 84 to 87     |
| Radiator cap pressure                             | bar | 0.74 to 1.03 |

### Fuel system Sumo 1.0 1988 to 1995

|   |     |              |
|---|-----|--------------|
| Idle speed - manual [auto]                            | rpm | 800±50       |
| Fast idle speed - manual [auto]                       | rpm | _            |
| CO @ idle speed [3000 rpm] - see page VI              | %   | 1.0 to 2.0   |
| HC @ idle speed [3000 rpm] - see page VI              | ppm | ≤1200        |
| CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI | %   | _            |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %   | _            |
| Carburettor / fuel injection                          |     | Hitachi      |
| Type / ref  |     | HCK 34       |
| Main jet / needle                                     |     | _            |
| Injection pressure                                    | bar | _            |
| Pump pressure   | bar | 0.09 to 0.14 |
| Octane rating   | RON | 90[E 91 RON] |

### Ignition system Sumo 1.0 1988 to 1995

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Electronic        |
| Ignition coil                   |                    | Hitachi           |
| Primary resistance              | ohms               | 1.3 to 1.6        |
| Ballast resistor                | ohms               | _                 |
| Voltage - Tmnl 15(+) to earth   | V                  | _                 |
| Distributor                     |                    | Hitachi           |
| Points gap (air gap)            | mm                 | [0.30 to 0.40]    |
| Dwell angle                     | ° (%)              | _                 |
| Condenser capacity              | µF                 | _                 |
| Rotation                        |                    | Anticlockwise     |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5±2 BTDC @ idle   |
| V = Vacuum NV = No Vacuum       |                    | V                 |
| Total ignition advance          | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
| Centrifugal check.              | ° Crankshaft @ rpm | 0 to 4 @ 1400     |
|                                 | ° Crankshaft @ rpm | 10 to 14 @ 3000   |
|                                 | ° Crankshaft @ rpm | 26 to 30 @ 5400   |
| Vacuum range check              | mbar               | 81 to 481         |
| Maximum vacuum advance          | ° Crankshaft       | 18 to 22          |
| Spark plugs                     |                    | NGK/Champion      |
| Type                            |                    | BPR6ES-11 / RN9YC |
| Electrode gap                   | mm                 | 1.00 to 1.10      |

### Electrical system Sumo 1.0 1988 to 1995

|   |             |                         |
|---|-------------|-------------------------|
| Battery   | V / CC / RC | 12 / 36Ah               |
| Alternator voltage / full load current / engine rpm |             | 14.2 to 14.8 / _ / 3000 |
| Starter motor current / voltage - cranking          | A / V       | _                       |
| - locked  | A / V       | _                       |

### Running gear Sumo 1.0 1988 to 1995

|   |        |           |
|---|--------|-----------|
| <b>Brakes -</b>                           |        |           |
| Front (min. friction material thickness)  | mm     | _         |
| Rear (min. friction material thickness)   | mm     | _         |
| <b>Tyres</b>                              |        |           |
| Saloon                                    | Size   | _         |
| Estate / Van                              | Size   | 155x12    |
| Pressure - front / rear - Saloon          | bar    | _         |
| - Estate / Van                            | bar    | 2.2 / 2.2 |
| <b>Front suspension / wheel alignment</b> |        |           |
| Toe-in (+) / Toe-out (-)                  | mm [°] | +1.0±3.0  |
| Camber                                    |        | +1°30'    |
| Castor                                    |        | +8°45'    |
| King pin inclination                      |        | +13°40'   |
| <b>Rear suspension / wheel alignment</b>  |        |           |
| Toe-in (+) / Toe-out (-)                  | mm [°] | +1.0±3.0  |
| Camber                                    |        | +1°30'    |

### Torque wrench settings Sumo 1.0 1988 to 1995

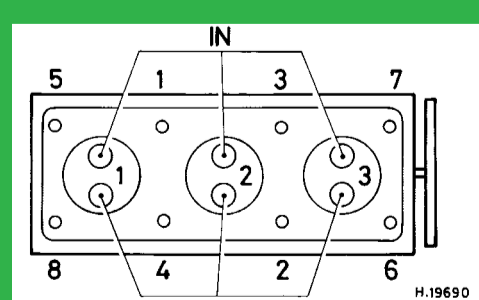
|                         |    |                     |
|-------------------------|----|---------------------|
| Cylinder head - stage 1 | Nm | 65 to 73 in 3 steps |
| - stage 2               | Nm | _                   |
| - stage 3               | Nm | _                   |
| - stage 4               | Nm | _                   |
| Big-end bearings        | Nm | 39 to 45            |
| Main bearings           | Nm | 41 to 47            |
| Clutch cover            | Nm | 9 to 11             |
| Flywheel [driveplate]   | Nm | 88 to 96            |
| Front hubs              | Nm | 177                 |
| Rear hubs               | Nm | WSM                 |
| Wheel nuts / bolts      | Nm | 78 to 98            |
| Spark plugs             | Nm | 18 to 24            |

### Capacities Sumo 1.0 1988 to 1995

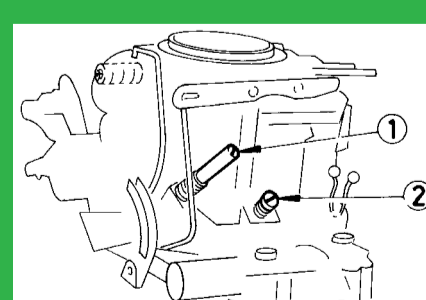
|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.0 |
| Gearbox - 4-speed [5-speed]     | litres | 2.1 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.5 |
| Fuel tank                       | litres | 40  |

### Notes and Illustrations

1: Idle speed 2: CO / Mixture



997 cm<sup>3</sup>



Hitachi HCK