

Engine & Cooling

Fuel

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Electrical

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Automotive Technical  
DATA BOOK

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HELP

| Engine and cooling system                           |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
|-----------------------------------------------------|--|--------------------|------------------------------------|--------------|
| Type                                                |  |                    | PM (66kW) SOHC                     |              |
| Capacity (cm <sup>3</sup> ) / number of cylinders   |  |                    | 1781 / 4                           |              |
| Compression ratio / pressure                        |  | bar                | 9.0 / ≥7.0                         |              |
| Oil pressure                                        |  | bar                | [2.0]                              |              |
| Oil temperature                                     |  | °C                 | 80                                 |              |
| Valve clearance - inlet                             |  | mm                 | 0: Hyd.                            |              |
| Valve clearance - exhaust                           |  | mm                 | 0: Hyd.                            |              |
| Firing order                                        |  |                    | 1-3-4-2                            |              |
| No 1 cylinder position                              |  |                    | TBE                                |              |
| Thermostat opening temperature                      |  | °C                 | 85                                 |              |
| Radiator cap pressure                               |  | bar                | 1.2 to 1.5                         |              |
| Fuel system                                         |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Idle speed - manual [auto]                          |  | rpm                | 750 to 950 N/A <sup>1</sup>        |              |
| Fast idle speed - manual [auto]                     |  | rpm                | —                                  |              |
| CO @ idle speed [3000 rpm] - see page VI            |  | %                  | ≤0.5 N/A                           |              |
| 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                        |  |                    | Bosch                              |              |
| Type / ref                                          |  |                    | Mono-Jetronic <sup>2</sup>         |              |
| Main jet / needle                                   |  |                    | —                                  |              |
| Injection pressure                                  |  | bar                | —                                  |              |
| Pump pressure                                       |  | bar                | 0.8 to 1.2                         |              |
| Octane rating                                       |  | RON                | 91[U]                              |              |
| Ignition system                                     |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Type                                                |  |                    | TSZ <sup>3</sup>                   |              |
| Ignition coil                                       |  |                    | Bosch                              |              |
| Primary resistance                                  |  | ohms               | 0.52 to 0.76                       |              |
| Ballast resistor                                    |  | ohms               | —                                  |              |
| Voltage - Tmnl 15(+) to earth                       |  | V                  | —                                  |              |
| Distributor                                         |  |                    | Bosch                              |              |
| Points gap (air gap)                                |  | mm                 | —                                  |              |
| Dwell angle                                         |  | ° (%)              | N/A                                |              |
| Condenser capacity                                  |  | µF                 | —                                  |              |
| Rotation                                            |  |                    | Clockwise                          |              |
| Ignition timing - basic [static                     |  | ° Crankshaft @ rpm | 6±1 BTDC @ 750 to 950 <sup>4</sup> |              |
| V = Vacuum NV = No Vacuum                           |  |                    | NV                                 |              |
| Total ignition advance                              |  | ° Crankshaft @ rpm | —                                  |              |
|                                                     |  | ° Crankshaft @ rpm | —                                  |              |
|                                                     |  | ° Crankshaft @ rpm | —                                  |              |
| Centrifugal check.                                  |  | ° Crankshaft @ rpm | 0 @ 950 to 1200 <sup>4</sup>       |              |
|                                                     |  | ° Crankshaft @ rpm | 14 to 18 @ 2600 <sup>4</sup>       |              |
|                                                     |  | ° Crankshaft @ rpm | 26 to 30 @ 6000 <sup>4</sup>       |              |
| Vacuum range check                                  |  | mbar               | 100 to 260 <sup>4</sup>            |              |
| Maximum vacuum advance                              |  | ° Crankshaft       | 10 to 14 <sup>4</sup>              |              |
| Spark plugs                                         |  |                    | NGK                                |              |
| Type                                                |  |                    | BUR5ET-10                          |              |
| Electrode gap                                       |  | mm                 | 0.70 to 0.90                       |              |
| Electrical system                                   |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Battery                                             |  | V / CC / RC        | 12 / —                             |              |
| Alternator voltage / full load current / engine rpm |  |                    | 12.5 to 14.5 / — / 2000            |              |
| Starter motor current / voltage - cranking          |  | A / V              | —                                  |              |
|                                                     |  | A / V              | —                                  |              |
| Running gear                                        |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Brakes -                                            |  |                    |                                    |              |
| Front (min. friction material thickness)            |  | mm                 | 2.0                                |              |
| Rear (min. friction material thickness)             |  | mm                 | 2.5                                |              |
| Tyres                                               |  |                    |                                    |              |
| Saloon                                              |  | Size               | 175/70x14: 195/60x14               |              |
| Estate / Van                                        |  | Size               | —                                  |              |
| Pressure - front / rear - Saloon                    |  | bar                | 1.9 / 1.9                          |              |
|                                                     |  | bar                | —                                  |              |
| Front suspension / wheel alignment                  |  |                    |                                    |              |
| Toe-in (+) / Toe-out (–)                            |  | mm [°]             | [+10'±10']                         |              |
| Camber                                              |  |                    | -45'±30'. 4x4: -50'±30'            |              |
| Castor                                              |  |                    | +1°15'±30'. Sport: +1°25'±30'      |              |
| King pin inclination                                |  |                    | —                                  |              |
| Rear suspension / wheel alignment                   |  |                    |                                    |              |
| Toe-in (+) / Toe-out (–)                            |  | mm [°]             | [+20'±20']. 4x4: [+20'±10']        |              |
| Camber                                              |  |                    | -1°±20'. 4x4: -45'±30'             |              |
| Torque wrench settings                              |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Cylinder head - stage 1                             |  | Nm                 | 40 N                               |              |
| - stage 2                                           |  | Nm                 | 60                                 |              |
| Cylinder head - stage 3                             |  | Nm                 | + 90°                              |              |
| - stage 4                                           |  | Nm                 | + 90°                              |              |
| Big-end bearings                                    |  | Nm                 | 30 + 90°                           |              |
| Main bearings                                       |  | Nm                 | 65                                 |              |
| Clutch cover                                        |  | Nm                 | 25                                 |              |
| Flywheel [driveplate]                               |  | Nm                 | 60 + 90°                           |              |
| Front hubs                                          |  | Nm                 | 265 LkC <sup>5</sup>               |              |
| Rear hubs                                           |  | Nm                 | WSM                                |              |
| Wheel nuts / bolts                                  |  | Nm                 | 110                                |              |
| Spark plugs                                         |  | Nm                 | 25                                 |              |
| Capacities                                          |  |                    | 80, 1.8 & 4x4 CAT                  | 1988 to 1991 |
| Engine oil & filter                                 |  | litres             | 3.0                                |              |
| Gearbox - 4-speed [5-speed]                         |  | litres             | 2.4. 4x4: 2.9                      |              |
| Automatic transmission - refill                     |  | litres             | 3.0                                |              |
| Final drive                                         |  | litres             | AT & 4x4: 0.75                     |              |
| Cooling system                                      |  | litres             | 7.0                                |              |
| Fuel tank                                           |  | litres             | 68. 4x4: 70                        |              |

Notes and Illustrations

<sup>1</sup>Mono-Motronic: 750 to 1000 N/A

<sup>2</sup>8.90 ►: Mono-Motronic

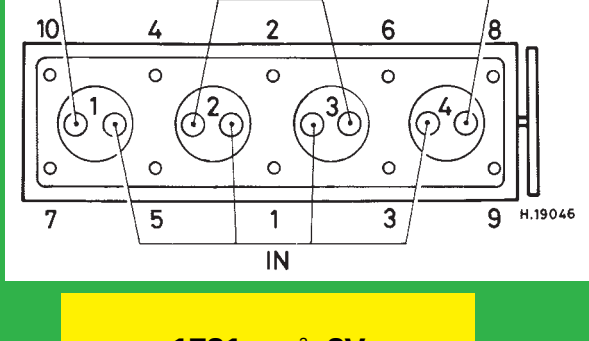
<sup>3</sup>8.90 ►: Mono-Motronic: computerized

<sup>4</sup>8.90 ►: Mono-Motronic: computer control N/A

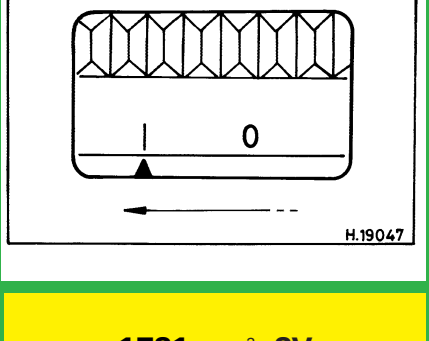
<sup>5</sup>PAS M14: 120 + 90°. PAS M16: 200 + 90°

1: Idle speed

2: CO / Mixture



1781 cm<sup>3</sup>, 8V



1781 cm<sup>3</sup>, 8V