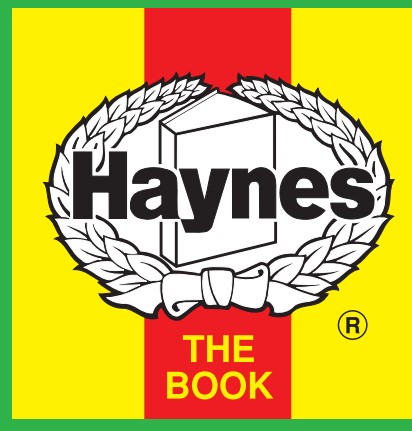


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# Automotive Technical DATA BOOK

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## Engine and cooling system Persona 1.8 1996 to 1997

|   |     |                 |
|---|-----|-----------------|
| Type  |     | 4G93-0 SOHC 12V |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1834 / 4        |
| Compression ratio / pressure                      | bar | 10.0 / 14.0     |
| Oil pressure                                      | bar | –               |
| Oil temperature                                   | °C  | –               |
| Valve clearance - inlet                           | mm  | 0.09            |
| Valve clearance - exhaust                         | mm  | 0.20            |
| Firing order                                      |     | 1-3-4-2         |
| No 1 cylinder position                            |     | TBE             |
| Thermostat opening temperature                    | °C  | 82              |
| Radiator cap pressure                             | bar | –               |

## Fuel system Persona 1.8 1996 to 1997

|   |     |             |
|---|-----|-------------|
| Idle speed - manual [auto]                            | rpm | 800±100 N/A |
| 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 | ≤200        |
| 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                          |     | –           |
| Type / ref  |     | MPI         |
| Main jet / needle                                     |     | –           |
| Injection pressure                                    | bar | 3.35        |
| Pump pressure   | bar | –           |
| Octane rating   | RON | 95[U]       |

## Ignition system Persona 1.8 1996 to 1997

|   |                    |                   |
|---|--------------------|-------------------|
| Type  |                    | Electronic        |
| Ignition coil   |                    | –                 |
| Primary resistance  | ohms               | 0.9 to 1.2        |
| 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<br>V = Vacuum NV = No Vacuum] | ° Crankshaft @ rpm | 5° BTDC @ 800±100 |
| 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/Nippon Denso  |
| Type  |                    | BK5E / K16P-U     |
| Electrode gap   | mm                 | –                 |

## Electrical system Persona 1.8 1996 to 1997

|   |             |           |
|---|-------------|-----------|
| Battery   | V / CC / RC | 12 / 53Ah |
| Alternator voltage / full load current / engine rpm |             | _ / 75 /  |
| Starter motor current / voltage - cranking          | A / V       | –         |
| - locked  | A / V       | –         |

## Running gear Persona 1.8 1996 to 1997

|  |    |     |
|--|----|-----|
| <b>Brakes -</b>                          |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 2.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | 185/60x14 |
| Estate / Van                     | Size | –         |
| Pressure - front / rear - Saloon | bar  | 2.0 / 2.0 |
| - Estate / Van                   | bar  | –         |

## Front suspension / wheel alignment

|                          |        |           |
|--------------------------|--------|-----------|
| Toe-in (+) / Toe-out (-) | mm [°] | +0.0±3.0  |
| Camber                   |        | 0°00'±30' |
| Castor                   |        | 2°15'±30' |
| King pin inclination     |        | 12°49'    |

## Rear suspension / wheel alignment

|                          |        |             |
|--------------------------|--------|-------------|
| Toe-in (+) / Toe-out (-) | mm [°] | +1.0 to 5.0 |
| Camber                   |        | -0°40'±30'  |

## Torque wrench settings Persona 1.8 1996 to 1997

|                         |    |                         |
|-------------------------|----|-------------------------|
| Cylinder head - stage 1 | Nm | 75 slacken <sup>1</sup> |
| - stage 2               | Nm | 20                      |
| Cylinder head - stage 3 | Nm | +90°                    |
| - stage 4               | Nm | +90°                    |
| Big-end bearings        | Nm | 20 +90°                 |
| Main bearings           | Nm | 25 +90° <sup>2</sup>    |
| Clutch cover            | Nm | 15 to 22                |
| Flywheel [driveplate]   | Nm | 100 (100)               |
| Front hubs              | Nm | 200 to 260              |
| Rear hubs               | Nm | 180                     |
| Wheel nuts / bolts      | Nm | 90 to 110               |
| Spark plugs             | Nm | –                       |

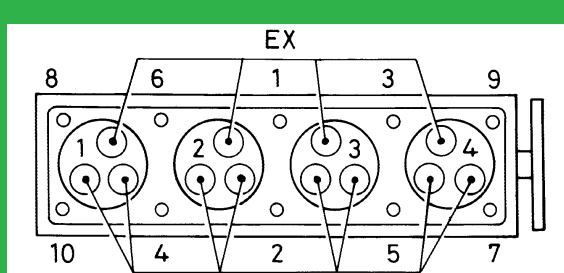
## Capacities Persona 1.8 1996 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.8 |
| Gearbox - 4-speed [5-speed]     | litres | 1.8 |
| Automatic transmission - refill | litres | 6.1 |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.0 |
| Fuel tank                       | litres | 50  |

## Notes and Illustrations

<sup>1</sup>Bolt shank length ≤96.4 mm

<sup>2</sup>Bolt shank length ≤71.1 mm



1834 cm<sup>3</sup> 12V