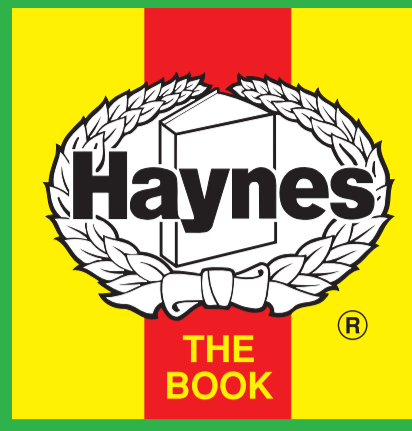


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## Automotive Technical DATA BOOK

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### Engine and cooling system

**Delta 1.8 1993 to 1996**

|   |                          |           |
|---|--------------------------|-----------|
| Type  | 835 C2.000 DOHC 8V. 76kW |           |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 1756 / 4                 |           |
| Compression ratio / pressure                      | bar                      | 9.5 / _   |
| Oil pressure                                      | bar                      | 1.4 [4.8] |
| Oil temperature                                   | °C                       | 80        |
| Valve clearance - inlet                           | mm                       | 0.43±0.04 |
| Valve clearance - exhaust                         | mm                       | 0.48±0.04 |
| Firing order                                      | 1-3-4-2                  |           |
| No 1 cylinder position                            | TBE                      |           |
| Thermostat opening temperature                    | °C                       | 81 to 85  |
| Radiator cap pressure                             | bar                      | 0.98      |

### Fuel system

**Delta 1.8 1993 to 1996**

|   |                |              |
|---|----------------|--------------|
| Idle speed - manual [auto]                            | rpm            | 850±50 N/A   |
| Fast idle speed - manual [auto]                       | rpm            | _            |
| CO @ idle speed [3000 rpm] - see page VI              | %              | ≤0.35 Ex N/A |
| HC @ idle speed [3000 rpm] - see page VI              | ppm            | ≤90 Ex       |
| CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI | %              | ≥13.0 Ex     |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %              | _            |
| Carburettor / fuel injection                          | _Weber-Marelli |              |
| Type / ref  | IAW 8F.52 MPI  |              |
| Main jet / needle                                     | _              |              |
| Injection pressure                                    | bar            | 2.5          |
| Pump pressure   | bar            | _            |
| Octane rating   | RON            | 95[U]        |

### Ignition system

**Delta 1.8 1993 to 1996**

|   |                    |                    |
|---|--------------------|--------------------|
| Type  | IAW Static         |                    |
| Ignition coil   | Magneti Marelli    |                    |
| Primary resistance  | ohms               | 0.495 to 0.605     |
| 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 | 10±3 BTDC @ 850±50 |
| 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   | _/Champion         |                    |
| Type  | RN7YCC             |                    |
| Electrode gap   | mm                 | 0.85 to 0.95       |

### Electrical system

**Delta 1.8 1993 to 1996**

|   |                 |           |
|---|-----------------|-----------|
| Battery   | V / CC / RC     | 12 / 50Ah |
| Alternator voltage / full load current / engine rpm | 12 / 65, 90 / _ |           |
| Starter motor current / voltage - cranking          | A / V           | _         |
| - locked  | A / V           | _         |

### Running gear

**Delta 1.8 1993 to 1996**

|  |    |     |
|--|----|-----|
| <b>Brakes -</b>                          |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.5 |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | 185/60x14 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.2 / 2.2 |
| - Estate / Van                   | bar  | _         |

|   |            |       |
|---|------------|-------|
| <b>Front suspension / wheel alignment</b> |            |       |
| Toe-in (+) / Toe-out (-)                  | mm [°]     | 0±1.0 |
| Camber                                    | -15'±30'   |       |
| Castor                                    | +2°40'±30' |       |
| King pin inclination                      | _          |       |

|  |             |              |
|--|-------------|--------------|
| <b>Rear suspension / wheel alignment</b> |             |              |
| Toe-in (+) / Toe-out (-)                 | mm [°]      | -0.5±2.0 N/A |
| Camber                                   | -1°±30' N/A |              |

### Torque wrench settings

**Delta 1.8 1993 to 1996**

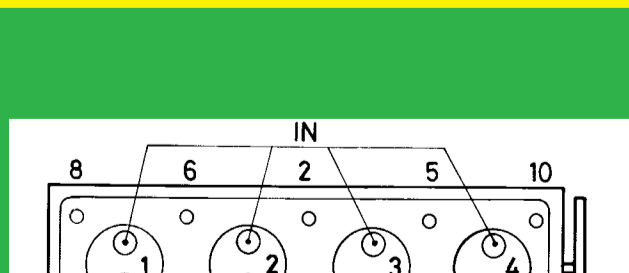
|                         |    |                             |
|-------------------------|----|-----------------------------|
| Cylinder head - stage 1 | Nm | 20                          |
| - stage 2               | Nm | 60                          |
| Cylinder head - stage 3 | Nm | +90°                        |
| - stage 4               | Nm | +90°                        |
| Big-end bearings        | Nm | 25 + 50°                    |
| Main bearings           | Nm | 20 + 90°. Centre: 20 + 130° |
| Clutch cover            | Nm | _                           |
| Flywheel [driveplate]   | Nm | 142                         |
| Front hubs              | Nm | 240                         |
| Rear hubs               | Nm | 280                         |
| Wheel nuts / bolts      | Nm | 86                          |
| Spark plugs             | Nm | 27                          |

### Capacities

**Delta 1.8 1993 to 1996**

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 5.2 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.9 |
| Fuel tank                       | litres | 57  |

### Notes and Illustrations



1756 cm<sup>3</sup>