

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemDelta 1.51991 to 1992

|                                      |     |                      |
|--------------------------------------|-----|----------------------|
| Type                                 |     | 831 B1.000 SOHC 59kW |
| Capacity (cm³) / number of cylinders |     | 1498 / 4             |
| Compression ratio / pressure         | bar | 9.2±0.15 / _         |
| Oil pressure                         | bar | [3.4 to 4.9]         |
| Oil temperature                      | °C  | 100                  |
| Valve clearance - inlet              | mm  | 0.40±0.05            |
| Valve clearance - exhaust            | mm  | 0.50±0.05            |
| Firing order                         |     | 1-3-4-2              |
| No 1 cylinder position               |     | TBE                  |
| Thermostat opening temperature       | °C  | 83 to 87             |
| Radiator cap pressure                | bar | 0.98                 |

Fuel systemDelta 1.51991 to 1992

|                                           |     |                  |
|-------------------------------------------|-----|------------------|
| Idle speed - manual [auto]                | rpm | 850±50           |
| Fast idle speed - manual [auto]           | rpm | _                |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.0±0.5          |
| 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              |     | Weber            |
| Type / ref                                |     | 32-34 TLDA 9/251 |
| Main jet / needle                         |     | 112, 140         |
| Injection pressure                        | bar | _                |
| Pump pressure                             | bar | 0.15 to 0.20     |
| Octane rating                             | RON | 95[E 95 RON]     |

Ignition systemDelta 1.51991 to 1992

|                                 |                    |                          |
|---------------------------------|--------------------|--------------------------|
| Type                            |                    | Digiplex 2               |
| Ignition coil                   |                    | Marelli BAE 504F         |
| Primary resistance              | ohms               | 0.415 to 0.495           |
| Ballast resistor                | ohms               | _                        |
| Voltage - Tmnl 15(+) to earth   | V                  | _                        |
| Distributor                     |                    | Marelli                  |
| Points gap (air gap)            | mm                 | _                        |
| Dwell angle                     | ° (%)              | _                        |
| Condenser capacity              | µF                 | _                        |
| Rotation                        |                    | Anticlockwise            |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 12±2 BTDC @ idle         |
| V = Vacuum NV = No Vacuum       |                    | NV                       |
| Total ignition advance          | ° Crankshaft @ rpm | 42±2 BTDC @ 4000 to 4550 |
|                                 | ° 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                     |                    | Bosch/Champion           |
| Type                            |                    | WR6DC / RN7YC            |
| Electrode gap                   | mm                 | 0.60 to 0.80             |

Electrical systemDelta 1.51991 to 1992

|                                                     |             |                          |
|-----------------------------------------------------|-------------|--------------------------|
| Battery                                             | V / CC / RC | 12 / 200 / 40            |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 14.3 / 55 / 3500 |
| Starter motor current / voltage - cranking          | A / V       | 190 to 200 / 9.8 to 10.4 |
| - locked                                            | A / V       | 380 to 440 / 7.6 to 8.5  |

Running gearDelta 1.51991 to 1992

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.5 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 165/65x14 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.0 / 2.0 |
| - Estate / Van                   | bar  | _         |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)           | mm [°] | +1.0 to -2.5 |
| Camber                             |        | +10'±30' N/A |
| Castor                             |        | +2°20'±30'   |
| King pin inclination               |        | +9°18'       |

|                                   |        |              |
|-----------------------------------|--------|--------------|
| Rear suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)          | mm [°] | +2.0 to 5.0  |
| Camber                            |        | -20'±30' N/A |

Torque wrench settingsDelta 1.51991 to 1992

|                         |    |       |
|-------------------------|----|-------|
| Cylinder head - stage 1 | Nm | 20    |
| - stage 2               | Nm | 40    |
| Cylinder head - stage 3 | Nm | + 90° |
| - stage 4               | Nm | + 90° |
| Big-end bearings        | Nm | 51    |
| Main bearings           | Nm | 80    |
| Clutch cover            | Nm | 38    |
| Flywheel [driveplate]   | Nm | 78    |
| Front hubs              | Nm | 294   |
| Rear hubs               | Nm | 216   |
| Wheel nuts / bolts      | Nm | 86    |
| Spark plugs             | Nm | 27    |

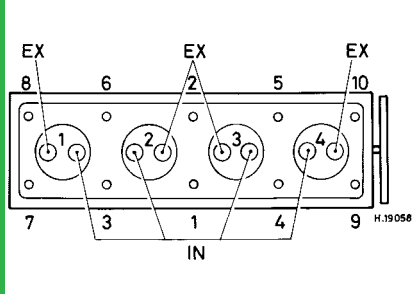
CapacitiesDelta 1.51991 to 1992

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.9 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.0 |
| Fuel tank                       | litres | 57  |

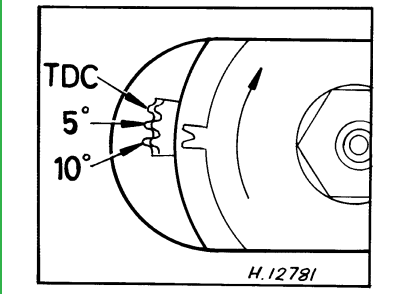
Notes and Illustrations



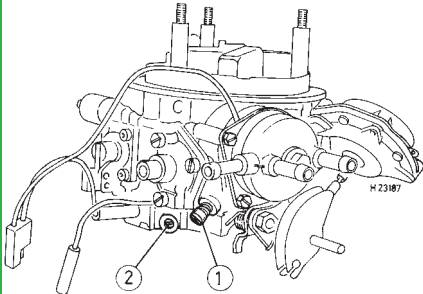
1: Idle speed      2: CO / Mixture



1498 cm³



1498 cm³



Weber 32-34 TLDA