

Engine & Cooling

Fuel

Ignition

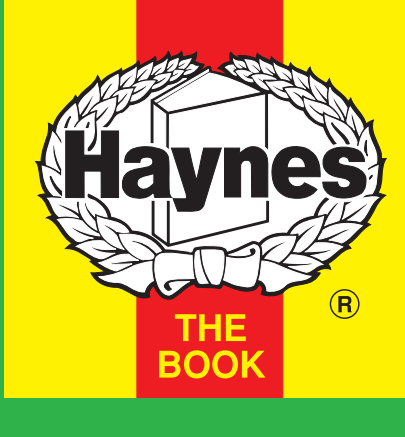
Electrical

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Automotive Technical  
**DATA BOOK**

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Engine and cooling systemElan Turbo SE & S21990 to 1996

|                                      |     |                       |
|--------------------------------------|-----|-----------------------|
| Type                                 |     | 4XE1-M Turbo DOHC 16V |
| Capacity (cm³) / number of cylinders |     | 1588 / 4              |
| Compression ratio / pressure         | bar | 8.5 / 11.5            |
| Oil pressure                         | bar | 0.35                  |
| 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  | —                     |
| Radiator cap pressure                | bar | 1.0                   |

Fuel systemElan Turbo SE & S21990 to 1996

|                                           |     |              |
|-------------------------------------------|-----|--------------|
| Idle speed - manual [auto]                | rpm | 950 N/A      |
| 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              |     | GM           |
| Type / ref                                |     | MPI          |
| Main jet / needle                         |     | —            |
| Injection pressure                        | bar | —            |
| Pump pressure                             | bar | 2.1 to 3.8   |
| Octane rating                             | RON | 97[E 95 RON] |

Ignition systemElan Turbo SE & S21990 to 1996

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Distributorless   |
| Ignition coil                   |                    | —                 |
| Primary resistance              | ohms               | —                 |
| 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 | ° Crankshaft @ rpm | 16 BTDC @ 950 N/A |
| V = Vacuum    NV = No Vacuum    |                    | —                 |
| Total ignition advance          | ° Crankshaft @ rpm | —                 |
|                                 | ° 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               |
| Type                            |                    | BKR6E             |
| Electrode gap                   | mm                 | 0.80              |

Electrical systemElan Turbo SE & S21990 to 1996

|                                                     |             |                          |
|-----------------------------------------------------|-------------|--------------------------|
| Battery                                             | V / CC / RC | 12 / 255 / 55Ah          |
| Alternator voltage / full load current / engine rpm |             | 14.2 to 14.8 / 60 / 3000 |
| Starter motor current / voltage - cranking          | A / V       | —                        |
| - locked                                            | A / V       | —                        |

Running gearElan Turbo SE & S21990 to 1996

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 1.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 205/50x15 |
| Estate / Van                     | Size | —         |
| Pressure - front / rear - Saloon | bar  | 1.8 / 1.8 |
| - Estate / Van                   | bar  | —         |

|                                    |        |           |
|------------------------------------|--------|-----------|
| Front suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (–)           | mm [°] | 0         |
| Camber                             |        | -15'±15'  |
| Castor                             |        | +1°+30'-0 |
| King pin inclination               |        | +10°±30'  |

|                                   |        |             |
|-----------------------------------|--------|-------------|
| Rear suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (–)          | mm [°] | +2.0±0.5 PW |
| Camber                            |        | -30'±15'    |

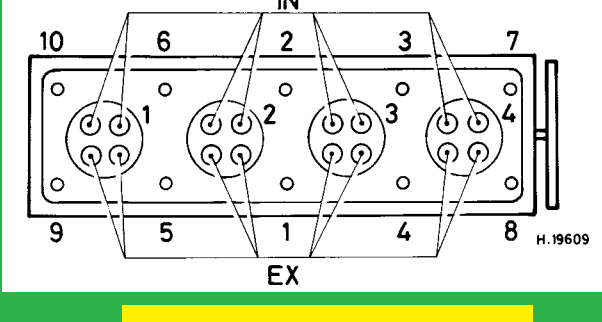
Torque wrench settingsElan Turbo SE & S21990 to 1996

|                         |    |                |
|-------------------------|----|----------------|
| Cylinder head - stage 1 | Nm | 40             |
| - stage 2               | Nm | 78             |
| Cylinder head - stage 3 | Nm | —              |
| - stage 4               | Nm | —              |
| Big-end bearings        | Nm | 15 + 45 to 60° |
| Main bearings           | Nm | 90             |
| Clutch cover            | Nm | 19             |
| Flywheel [driveplate]   | Nm | 30 + 45 to 60° |
| Front hubs              | Nm | 225 to 235     |
| Rear hubs               | Nm | WSM            |
| Wheel nuts / bolts      | Nm | 80 to 88       |
| Spark plugs             | Nm | —              |

CapacitiesElan Turbo SE & S21990 to 1996

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 3.5  |
| Gearbox - 4-speed [5-speed]     | litres | 1.9  |
| Automatic transmission - refill | litres | —    |
| Final drive                     | litres | WT   |
| Cooling system                  | litres | 6.25 |
| Fuel tank                       | litres | 46   |

Notes and Illustrations



1588 cm³