

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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Engine and cooling systemEsprit S4 & S4S1995 to 1997

|                                                   |     |                                  |
|---------------------------------------------------|-----|----------------------------------|
| Type                                              |     | 910S DOHC Turbo 16V <sup>1</sup> |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 2174 / 4                         |
| Compression ratio / pressure                      | bar | 8.0 / ≥9.5                       |
| Oil pressure                                      | bar | 0.35 [2.4]                       |
| Oil temperature                                   | °C  | 80                               |
| Valve clearance - inlet                           | mm  | 0.13 to 0.18                     |
| Valve clearance - exhaust                         | mm  | 0.25 to 0.31                     |
| Firing order                                      |     | 1-3-4-2                          |
| No 1 cylinder position                            |     | F                                |
| Thermostat opening temperature                    | °C  | 82                               |
| Radiator cap pressure                             | bar | 1.10                             |

Fuel systemEsprit S4 & S4S1995 to 1997

|                                           |     |                |
|-------------------------------------------|-----|----------------|
| Idle speed - manual [auto]                | rpm | 900 to 1000    |
| Fast idle speed - manual [auto]           | rpm | —              |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 0.3 to 1.2     |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤300           |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | —              |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —              |
| Carburettor / fuel injection              |     | GM             |
| Type / ref                                |     | Electronic MPI |
| Main jet / needle                         |     | —              |
| Injection pressure                        | bar | 3.5±0.6        |
| Pump pressure                             | bar | 3.5±0.6        |
| Octane rating                             | RON | 95[U]          |

Ignition systemEsprit S4 & S4S1995 to 1997

|                                 |                    |                            |
|---------------------------------|--------------------|----------------------------|
| Type                            |                    | Direct electronic          |
| Ignition coil                   |                    | 2x Lucas 32C5              |
| Primary resistance              | ohms               | —                          |
| Ballast resistor                | ohms               | —                          |
| Voltage - Tmnl 15(+) to earth   | V                  | ≤1.0 below battery voltage |
| Distributor                     |                    | —                          |
| Points gap (air gap)            | mm                 | —                          |
| Dwell angle                     | ° (%)              | —                          |
| Condenser capacity              | µF                 | —                          |
| Rotation                        |                    | —                          |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 6 to 10 BTDC @ 900 to 1000 |
| V = Vacuum    NV = No Vacuum    |                    | —                          |
| 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/Champion               |
| Type                            |                    | BPR6EKN / RN7YC            |
| Electrode gap                   | mm                 | 0.90 to 1.00               |

Electrical systemEsprit S4 & S4S1995 to 1997

|                                                     |             |                          |
|-----------------------------------------------------|-------------|--------------------------|
| Battery                                             | V / CC / RC | 12 / 55Ah                |
| Alternator voltage / full load current / engine rpm |             | 13.5 to 15.0 / 90 / 3000 |
| Starter motor current / voltage - cranking          | A / V       | —                        |
| - locked                                            | A / V       | —                        |

Running gearEsprit S4 & S4S1995 to 1997

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 2.5 |
| Rear (min. friction material thickness)  | mm | 2.5 |

|                                  |      |                               |
|----------------------------------|------|-------------------------------|
| Tyres                            |      |                               |
| Saloon                           | Size | 235/40x17:285/35x18:215/40x17 |
| 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±0.5     |
| Camber                             |        | -0.7+0.2-0.1 |
| Castor                             |        | 3.2°±0.2’    |
| King pin inclination               |        | 9°35’        |

|                                   |        |             |
|-----------------------------------|--------|-------------|
| Rear suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (–)          | mm [°] | +1.5±0.5 PW |
| Camber                            |        | -30’±15’    |

Torque wrench settingsEsprit S4 & S4S1995 to 1997

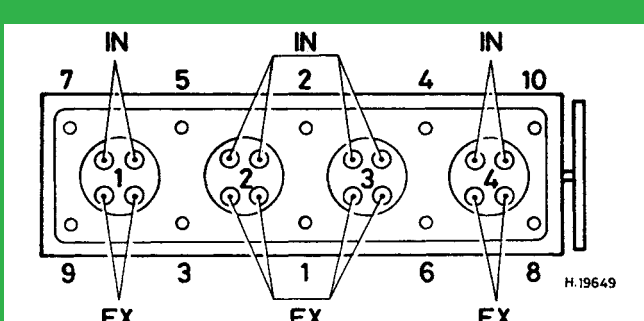
|                         |    |                   |
|-------------------------|----|-------------------|
| Cylinder head - stage 1 | Nm | 20 <sup>2</sup>   |
| - stage 2               | Nm | +75°              |
| Cylinder head - stage 3 | Nm | +40°              |
| - stage 4               | Nm | Wait 5 mins: +20° |
| Big-end bearings        | Nm | 114 to 117        |
| Main bearings           | Nm | M12: 88. M8: 20   |
| Clutch cover            | Nm | 23 to 26          |
| Flywheel [driveplate]   | Nm | 75                |
| Front hubs              | Nm | 29                |
| Rear hubs               | Nm | 270               |
| Wheel nuts / bolts      | Nm | 100               |
| Spark plugs             | Nm | 33 to 38          |

CapacitiesEsprit S4 & S4S1995 to 1997

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 6.3  |
| Gearbox - 4-speed [5-speed]     | litres | 3.0  |
| Automatic transmission - refill | litres | —    |
| Final drive                     | litres | WT   |
| Cooling system                  | litres | 12.0 |
| Fuel tank                       | litres | 73   |

Notes and Illustrations

- <sup>1</sup>S4: 197kW. S4S: 223kW
- <sup>2</sup>Studs in block pre-tighten to 39
- <sup>3</sup>Tighten evenly and gradually to these figures



2174 cm³