

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

E280 1995 to 1997

| | | |
|---------------------------------------------------|----------------|--------------|
| Type | DOHC 24V 142kW | |
| Capacity (cm ³) / number of cylinders | 2799 / 6 | |
| Compression ratio / pressure | bar | 10.0 / ≥12.0 |
| Oil pressure | bar | 0.3 [3.0] |
| Oil temperature | °C | 90 |
| Valve clearance - inlet | mm | 0: Hyd. |
| Valve clearance - exhaust | mm | 0: Hyd. |
| Firing order | 1-5-3-6-2-4 | |
| No 1 cylinder position | F | |
| Thermostat opening temperature | °C | |
| Radiator cap pressure | bar | |

Fuel system

E280 1995 to 1997

| | | |
|-------------------------------------------------------|-----|-------|
| Idle speed - manual [auto] | rpm | — |
| Fast idle speed - manual [auto] | rpm | — |
| CO @ idle speed [3000 rpm] - see page VI | % | ≤0.3 |
| HC @ idle speed [3000 rpm] - see page VI | ppm | ≤200 |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| Carburettor / fuel injection | — | |
| Type / ref | — | |
| Main jet / needle | — | |
| Injection pressure | bar | — |
| Pump pressure | bar | — |
| Octane rating | RON | 95[U] |

Ignition system

E280 1995 to 1997

| | | |
|---------------------------------|--------------------|----------------------|
| Type | Computerized | |
| Ignition coil | — | |
| Primary resistance | ohms | — |
| Ballast resistor | ohms | — |
| Voltage - Tmnl 15(+) to earth | V | Battery |
| Distributor | — | |
| Points gap (air gap) | mm | — |
| Dwell angle | ° (%) | — |
| Condenser capacity | µF | — |
| Rotation | — | |
| Ignition timing - basic [static | ° Crankshaft @ rpm | Computer control N/A |
| 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 | — | |
| Type | — | |
| Electrode gap | mm | — |

Electrical system

E280 1995 to 1997

| | | |
|-----------------------------------------------------|------------------|---------------------|
| Battery | V / CC / RC | 12 / 190 / 74Ah |
| Alternator voltage / full load current / engine rpm | 14.0 / 90 / 2490 | |
| Starter motor current / voltage - cranking | A / V | 95 / 11.5 (no load) |
| - locked | A / V | 650 to 840 / 3.8 |

Running gear

E280 1995 to 1997

| | | |
|------------------------------------------|----|-----|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 3.5 |
| Rear (min. friction material thickness) | mm | 2.5 |

Tyres

| | | |
|----------------------------------|------|-----------|
| Saloon | Size | 215/55x16 |
| Estate / Van | Size | — |
| Pressure - front / rear - Saloon | bar | — |
| - Estate / Van | bar | — |

Front suspension / wheel alignment

| | | |
|--------------------------|--------|---|
| Toe-in (+) / Toe-out (-) | mm [°] | — |
| Camber | — | |
| Castor | — | |
| King pin inclination | — | |

Rear suspension / wheel alignment

| | | |
|--------------------------|--------|---|
| Toe-in (+) / Toe-out (-) | mm [°] | — |
| Camber | — | |

Torque wrench settings

E280 1995 to 1997

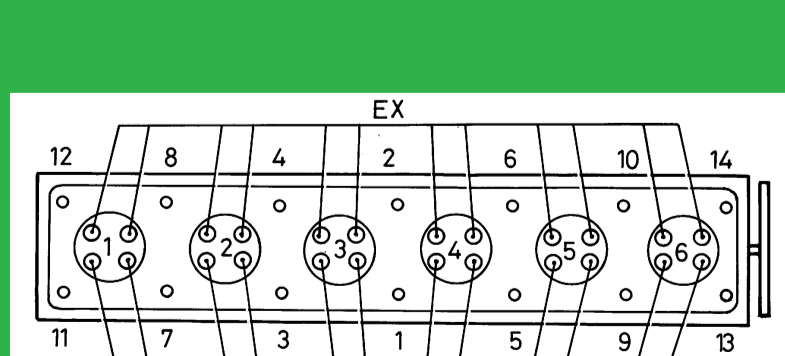
| | | |
|-------------------------|----|--------------------------|
| Cylinder head - stage 1 | Nm | 55. Bolt length ≤167.2mm |
| - stage 2 | Nm | + 90° |
| Cylinder head - stage 3 | Nm | + 90° |
| - stage 4 | Nm | — |
| Big-end bearings | Nm | 30 + 90 to 100° |
| Main bearings | Nm | 55 + 90 to 100° |
| Clutch cover | Nm | — |
| Flywheel [driveplate] | Nm | 30 + 90 to 100° |
| Front hubs | Nm | WSM |
| Rear hubs | Nm | WSM |
| Wheel nuts / bolts | Nm | 110 |
| Spark plugs | Nm | 30 |

Capacities

E280 1995 to 1997

| | | |
|---------------------------------|--------|----|
| Engine oil & filter | litres | — |
| Gearbox - 4-speed [5-speed] | litres | — |
| Automatic transmission - refill | litres | — |
| Final drive | litres | — |
| Cooling system | litres | — |
| Fuel tank | litres | 65 |

Notes and Illustrations



2799 cm³, 24V