

Engine & Cooling

Fuel

Ignition

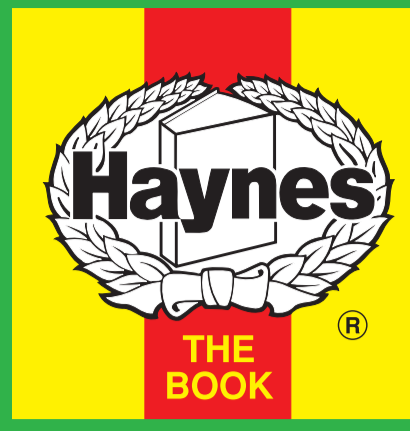
Electrical

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Automotive Technical DATA BOOK

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HELP

Engine and cooling system

960 3.0i 24V 1990 to 1997

| | | |
|---|-------------------------------------|---------------------|
| Type | B6304F DOHC 24V. 150kW ¹ | |
| Capacity (cm ³) / number of cylinders | 2922 / 6 | |
| Compression ratio / pressure | bar | 10.7 / 13.0 to 15.0 |
| Oil pressure | bar | 1.0 [3.0] |
| Oil temperature | °C | 80 |
| Valve clearance - inlet | mm | 0: Hyd. |
| - exhaust | mm | 0: Hyd. |
| Firing order | 1-5-3-6-2-4 | |
| No 1 cylinder position | TBE | |
| Thermostat opening temperature | °C | 87 to 102 |
| Radiator cap pressure | bar | 1.5 |

Fuel system

960 3.0i 24V 1990 to 1997

| | | |
|---|---------------|----------------|
| Idle speed - manual [auto] | rpm | 750±20 N/A |
| Fast idle speed - manual [auto] | rpm | — |
| CO @ idle speed [3000 rpm] - see page VI | % | 0.4 to 0.8 N/A |
| 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 | Bosch | |
| Type / ref | M1.8-Motronic | |
| Main jet / needle | — | |
| Injection pressure | bar | 3.00 |
| Pump pressure | bar | 3.0 |
| Octane rating | RON | 95[U] |

Ignition system

960 3.0i 24V 1990 to 1997

| | | |
|---------------------------------|--------------------|--------------------|
| Type | Distributorless | |
| Ignition coil | 1 coil per plug | |
| Primary resistance | ohms | 0.5 |
| Ballast resistor | ohms | — |
| Voltage - Tmnl 15(+) to earth | V | — |
| Distributor | — | |
| Points gap (air gap) | mm | — |
| Dwell angle | ° (%) | Electronic control |
| Condenser capacity | µF | — |
| Rotation | — | |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5±2 BTDC @ 750 |
| 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 | Bosch/Champion | |
| Type | FR6DC / RC7YCC | |
| Electrode gap | mm | 0.70 to 0.80 |

Electrical system

960 3.0i 24V 1990 to 1997

| | | |
|---|------------------------|--------------------------|
| Battery | V / CC / RC | 12 / 60Ah. 95 ▶: Various |
| Alternator voltage / full load current / engine rpm | 13.5 to 14.5 / 120 / — | |
| Starter motor current / voltage - cranking | A / V | — |
| - locked | A / V | — |

Running gear

960 3.0i 24V 1990 to 1997

| | | |
|--|----|-----|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 3.0 |
| Rear (min. friction material thickness) | mm | 2.0 |

| | | |
|----------------------------------|------|-----------|
| Tyres | | |
| Saloon | Size | 195/65x15 |
| Estate / Van | Size | 195/65x15 |
| Pressure - front / rear - Saloon | bar | 2.0 / 1.9 |
| - Estate / Van | bar | 1.9 / 2.1 |

| | | |
|---|-----------------------|-----------|
| Front suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | [+18'±8'] |
| Camber | 0.1°±1°. 95 ▶: WSM | |
| Castor | +5°±1°. 95 ▶: +6°±30' | |
| King pin inclination | — | |

| | | |
|--|--------|--------------------------|
| Rear suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | [+2'±3']. 95 ▶: [+6'±8'] |
| Camber | WSM | |

Torque wrench settings

960 3.0i 24V 1990 to 1997

| | | |
|-------------------------|----|---------------------|
| Cylinder head - stage 1 | Nm | 20 |
| - stage 2 | Nm | 60 |
| - stage 3 | Nm | + 130° |
| - stage 4 | Nm | — |
| Big-end bearings | Nm | 20 + 90° |
| Main bearings | Nm | 110 |
| Clutch cover | Nm | — |
| Flywheel [driveplate] | Nm | 45 + 65° [45 + 50°] |
| Front hubs | Nm | 100 + 45° |
| Rear hubs | Nm | 140 + 60° |
| Wheel nuts / bolts | Nm | 85 |
| Spark plugs | Nm | 25 |

Capacities

960 3.0i 24V 1990 to 1997

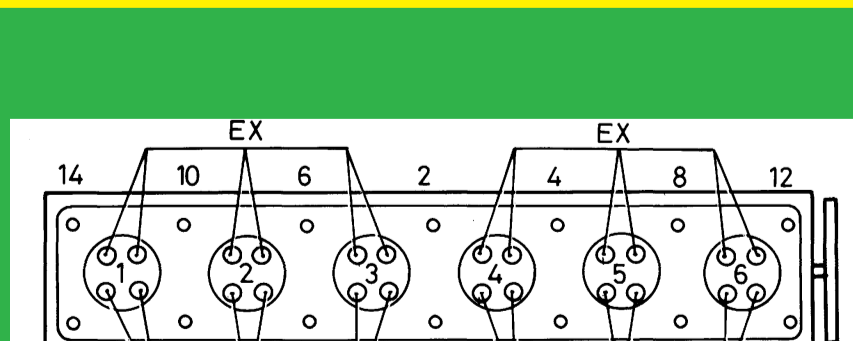
| | | |
|---------------------------------|--------|--|
| Engine oil & filter | litres | 5.75 |
| Gearbox - 4-speed [5-speed] | litres | 3.0 |
| Automatic transmission - refill | litres | 3.0 |
| Final drive | litres | ² |
| Cooling system | litres | 10.7 |
| Fuel tank | litres | 80. 965: 60. 93 to 94: 75 ³ |

Notes and Illustrations

¹With air pump / EGR: 135kW

²965, to 94: 1031: 1.75. 1041: 1.45. 964, to 94: 1035: 1.4 1045: 1.3. 960, 95 ▶: 1055: 1.5. 1065: 1.35

³965: 95 ▶: 80

2922 cm³, 24V