

CITROËN

BX 16V / 16S

1987 to 1993

Engine & Cooling

Fuel

Ignition

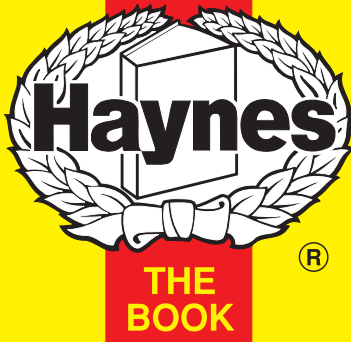
Electrical

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Automotive Technical  
DATA BOOK

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Engine and cooling system

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|                                                   |     |                            |
|---------------------------------------------------|-----|----------------------------|
| Type                                              |     | XU9J4 (D6C) DOHC 16V 116kW |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1905 / 4                   |
| Compression ratio / pressure                      | bar | 10.4 / _                   |
| Oil pressure                                      | bar | 2.0 [4.8]                  |
| 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                            |     | FE                         |
| Thermostat opening temperature                    | °C  | 88                         |
| Radiator cap pressure                             | bar | 1.0                        |

Fuel system

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|                                           |     |                               |
|-------------------------------------------|-----|-------------------------------|
| Idle speed - manual [auto]                | rpm | 850 N/A                       |
| Fast idle speed - manual [auto]           | rpm | _                             |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.5 N/A                      |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤100                          |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥13.0                         |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                             |
| Carburettor / fuel injection              |     | Bosch                         |
| Type / ref                                |     | Motronic. 91 ►: M1.3-Motronic |
| Main jet / needle                         |     | _                             |
| Injection pressure                        | bar | 3.0 to 3.5                    |
| Pump pressure                             | bar | _                             |
| Octane rating                             | RON | 98[L] <sup>1</sup>            |

Ignition system

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|                                 |                    |                               |
|---------------------------------|--------------------|-------------------------------|
| Type                            |                    | DME Motronic                  |
| Ignition coil                   |                    | Bosch                         |
| Primary resistance              | ohms               | _                             |
| Ballast resistor                | ohms               | _                             |
| Voltage - Tmnl 15(+) to earth   | V                  | _                             |
| Distributor                     |                    | Bosch/Ducellier               |
| Points gap (air gap)            | mm                 | _                             |
| Dwell angle                     | ° (%)              | _                             |
| Condenser capacity              | µF                 | _                             |
| Rotation                        |                    | _                             |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 6.75 BTDC @ idle              |
| 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                     |                    | Eyquem/Champion               |
| Type                            |                    | FC62LS3 / C7YCX, 91 ►: RC7BMC |
| Electrode gap                   | mm                 | 0.80                          |

Electrical system

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|                                                     |             |                  |
|-----------------------------------------------------|-------------|------------------|
| Battery                                             | V / CC / RC | 12 / 225 / 33    |
| Alternator voltage / full load current / engine rpm |             | 13.5 / 80 / 3650 |
| Starter motor current / voltage - cranking          | A / V       | 220 to 250 / _   |
| - locked                                            | A / V       | _                |

Running gear

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

|                                  |      |                        |
|----------------------------------|------|------------------------|
| Tyres                            |      |                        |
| Saloon                           | Size | 195/60x14              |
| Estate / Van                     | Size | _                      |
| Pressure - front / rear - Saloon | bar  | 2.2 / 2.1 <sup>1</sup> |
| - Estate / Van                   | bar  | _                      |

|                                    |        |           |
|------------------------------------|--------|-----------|
| Front suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (-)           | mm [°] | 0 to -3.0 |
| Camber                             |        | 0±30'     |
| Castor                             |        | +2°±35'   |
| King pin inclination               |        | +11°58'   |

|                                   |        |           |
|-----------------------------------|--------|-----------|
| Rear suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (-)          | mm [°] | 0 to +5.0 |
| Camber                            |        | -1°±20'   |

Torque wrench settings

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|                         |    |              |
|-------------------------|----|--------------|
| Cylinder head - stage 1 | Nm | 60           |
| - stage 2               | Nm | Slacken      |
| Cylinder head - stage 3 | Nm | 20           |
| - stage 4               | Nm | + 300°       |
| Big-end bearings        | Nm | <sup>2</sup> |
| Main bearings           | Nm | 53           |
| Clutch cover            | Nm | 22           |
| Flywheel [driveplate]   | Nm | 50 LkC       |
| Front hubs              | Nm | 270          |
| Rear hubs               | Nm | 275          |
| Wheel nuts / bolts      | Nm | 90           |
| Spark plugs             | Nm | 25           |

Capacities

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|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 5.3 |
| Gearbox - 4-speed [5-speed]     | litres | 1.8 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 8.0 |
| Fuel tank                       | litres | 66  |

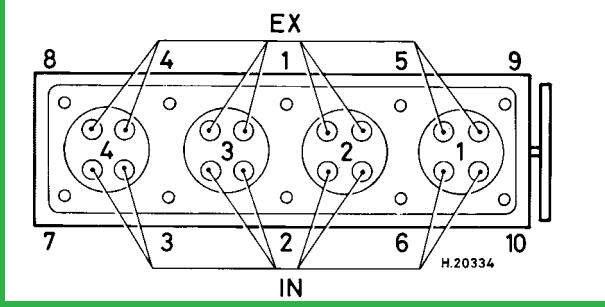
Notes and Illustrations

<sup>1</sup>91 ►: [E 95 RON]

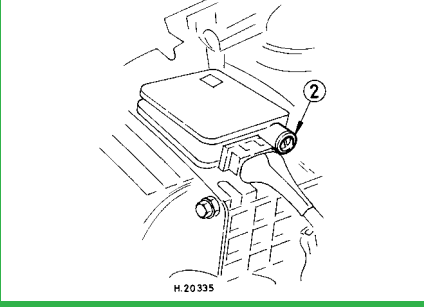
<sup>2</sup>90 ►: 2.1 / 1.9

<sup>3</sup>40, then 0, then 20 + 70°

1: Idle speed      2: CO / Mixture



1905 cm<sup>3</sup>, DOHC 16V



Motronic