

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

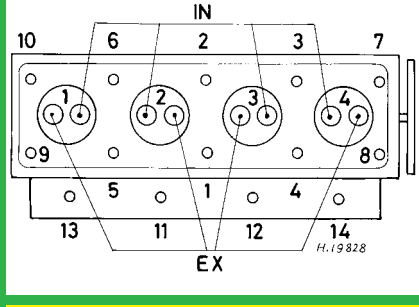
HELP

| Engine and cooling system                           |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
|-----------------------------------------------------|--|--------------------|-------------------------|--------------|
| Type                                                |  |                    | 136 OHV                 |              |
| Capacity (cm³) / number of cylinders                |  |                    | 1289 / 4                |              |
| Compression ratio / pressure                        |  | bar                | 9.7 / ≥12.0             |              |
| Oil pressure                                        |  | bar                | [4.1 to 5.5]            |              |
| Oil temperature                                     |  | °C                 | 70                      |              |
| Valve clearance - inlet                             |  | mm                 | 0.20±0.05               |              |
| - exhaust                                           |  | mm                 | 0.20±0.05               |              |
| Firing order                                        |  |                    | 1-3-4-2                 |              |
| No 1 cylinder position                              |  |                    | TCE                     |              |
| Thermostat opening temperature                      |  | °C                 | 88 to 98                |              |
| Radiator cap pressure                               |  | bar                | 1.0                     |              |
| Fuel system                                         |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Idle speed - manual [auto]                          |  | rpm                | 780 to 830              |              |
| Fast idle speed - manual [auto]                     |  | rpm                | —                       |              |
| CO @ idle speed [3000 rpm] - see page VI            |  | %                  | 0.8 to 1.5              |              |
| 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                        |  |                    | Jikov                   |              |
| Type / ref                                          |  |                    | 32 SEDR                 |              |
| Main jet / needle                                   |  |                    | 115, 135                |              |
| Injection pressure                                  |  | bar                | —                       |              |
| Pump pressure                                       |  | bar                | 0.17                    |              |
| Octane rating                                       |  | RON                | 96[R]                   |              |
| Ignition system                                     |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Type                                                |  |                    | Contact breaker - CIS   |              |
| Ignition coil                                       |  |                    | Pal-Magneton            |              |
| Primary resistance                                  |  | ohms               | 2.0                     |              |
| Ballast resistor                                    |  | ohms               | 1.5                     |              |
| Voltage - Tmnl 15(+) to earth                       |  | V                  | —                       |              |
| Distributor                                         |  |                    | —                       |              |
| Points gap (air gap)                                |  | mm                 | 0.35 to 0.45            |              |
| Dwell angle                                         |  | ° (%)              | (55±5)                  |              |
| Condenser capacity                                  |  | µF                 | 0.20 to 0.25            |              |
| Rotation                                            |  |                    | Clockwise               |              |
| Ignition timing - basic [static                     |  | ° Crankshaft @ rpm | 5±2 BTDC @ 600          |              |
| V = Vacuum NV = No Vacuum                           |  |                    | NV                      |              |
| Total ignition advance                              |  | ° Crankshaft @ rpm | —                       |              |
|                                                     |  | ° Crankshaft @ rpm | —                       |              |
|                                                     |  | ° Crankshaft @ rpm | —                       |              |
| Centrifugal check.                                  |  | ° Crankshaft @ rpm | 0 @ 1150 to 1400        |              |
|                                                     |  | ° Crankshaft @ rpm | 14 to 18 @ 1800         |              |
|                                                     |  | ° Crankshaft @ rpm | 26 to 30 @ 5000         |              |
| Vacuum range check                                  |  | mbar               | 133 to 400              |              |
| Maximum vacuum advance                              |  | ° Crankshaft       | 8 to 12                 |              |
| Spark plugs                                         |  |                    | Pal/Champion            |              |
| Type                                                |  |                    | Super G8Y / S7YC        |              |
| Electrode gap                                       |  | mm                 | 0.60                    |              |
| Electrical system                                   |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Battery                                             |  | V / CC / RC        | 12 / 37Ah               |              |
| Alternator voltage / full load current / engine rpm |  |                    | 13.4 to 14.3 / _ / 3000 |              |
| Starter motor current / voltage - cranking          |  | A / V              | 150 to 210 / 9.5        |              |
| - locked                                            |  | A / V              | 340 / 8.0               |              |
| Running gear                                        |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Brakes -                                            |  |                    |                         |              |
| Front (min. friction material thickness)            |  | mm                 | 1.5                     |              |
| Rear (min. friction material thickness)             |  | mm                 | 2.5                     |              |
| Tyres                                               |  |                    |                         |              |
| Saloon                                              |  | Size               | 165x13: 165/80x13       |              |
| Estate / Van                                        |  | Size               | —                       |              |
| Pressure - front / rear - Saloon                    |  | bar                | 1.5 / 1.9               |              |
| - Estate / Van                                      |  | bar                | —                       |              |
| Front suspension / wheel alignment                  |  |                    |                         |              |
| Toe-in (+) / Toe-out (–)                            |  | mm [°]             | 0 to -3.0               |              |
| Camber                                              |  |                    | +1°±30'                 |              |
| Castor                                              |  |                    | +4°45' to 6°30'         |              |
| King pin inclination                                |  |                    | +8°                     |              |
| Rear suspension / wheel alignment                   |  |                    |                         |              |
| Toe-in (+) / Toe-out (–)                            |  | mm [°]             | -1.0 to +2.0            |              |
| Camber                                              |  |                    | -2°15'                  |              |
| Torque wrench settings                              |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Cylinder head - stage 1                             |  | Nm                 | BOLTS: 17 to 20         |              |
| - stage 2                                           |  | Nm                 | + 90°                   |              |
| - stage 3                                           |  | Nm                 | + 90°                   |              |
| - stage 4                                           |  | Nm                 | NUTS: 20 to 26          |              |
| Big-end bearings                                    |  | Nm                 | 36 to 40                |              |
| Main bearings                                       |  | Nm                 | 60mm pin:50 to 55¹      |              |
| Clutch cover                                        |  | Nm                 | 23 to 28                |              |
| Flywheel [driveplate]                               |  | Nm                 | 55 to 65                |              |
| Front hubs                                          |  | Nm                 | WSM                     |              |
| Rear hubs                                           |  | Nm                 | 300                     |              |
| Wheel nuts / bolts                                  |  | Nm                 | 60 to 70                |              |
| Spark plugs                                         |  | Nm                 | 20 to 30²               |              |
| Capacities                                          |  |                    | 136G Rapid Coupé        | 1988 to 1990 |
| Engine oil & filter                                 |  | litres             | 4.0 [+ cooler 0.6]      |              |
| Gearbox - 4-speed [5-speed]                         |  | litres             | 2.4                     |              |
| Automatic transmission - refill                     |  | litres             | —                       |              |
| Final drive                                         |  | litres             | WT                      |              |
| Cooling system                                      |  | litres             | 11.5                    |              |
| Fuel tank                                           |  | litres             | 36                      |              |

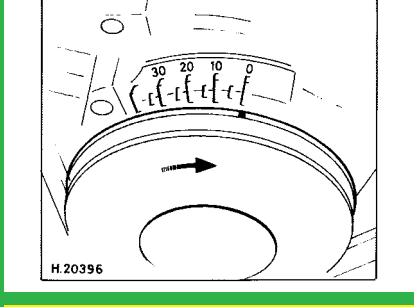
Notes and Illustrations

- <sup>1</sup>M11: 65 to 75
- <sup>2</sup>Flat seat only. Taper seat: 10 to 14

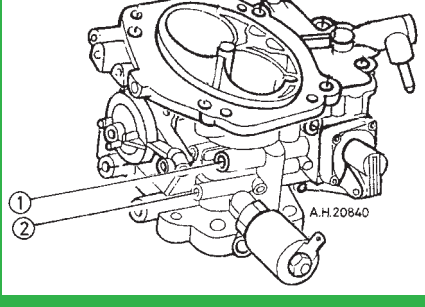
1: Idle speed      2: CO / Mixture



1289 cm³



1289 cm³



Jikov SEDR