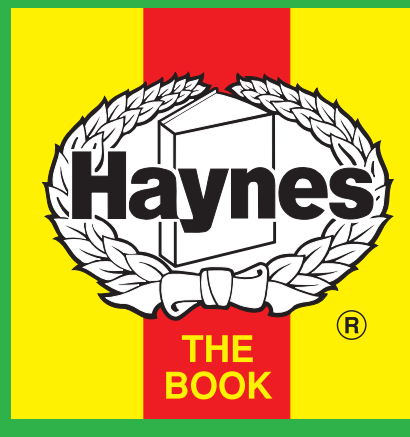




# Automotive Technical DATA BOOK

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**

|                                  |                                    |              |
|----------------------------------|------------------------------------|--------------|
| <b>Engine and cooling system</b> | Nova / Corsa-A 1.6i                | 1988 to 1992 |
| <b>Transmission</b>              | F1027 2200, F1028 1500, F1029 1500 |              |

|                                                   |                         |            |
|---------------------------------------------------|-------------------------|------------|
| type                                              | E16SE SOHC. 74kW. 15.05 |            |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 1598 / 4                |            |
| Compression ratio / pressure                      | bar                     | 10.0 / _   |
| Oil pressure                                      | bar                     | 1.5        |
| 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                            | TBE                     |            |
| Thermostat opening temperature                    | °C                      | 92 to 107  |
| Radiator cap pressure                             | bar                     | 1.2 to 1.4 |

|                    |                     |              |
|--------------------|---------------------|--------------|
| <b>Fuel system</b> | Nova / Corsa-A 1.6i | 1988 to 1992 |
|--------------------|---------------------|--------------|

|                                           |     |                   |
|-------------------------------------------|-----|-------------------|
| Idle speed - manual [auto]                | rpm | 900 to 950        |
| Fast idle speed - manual [auto]           | rpm | —                 |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5±0.5 WSM       |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤200              |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | —                 |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —                 |
| Carburettor / fuel injection              |     | Bosch             |
| Type / ref                                |     | L3/LE3.1-Jetronic |
| Main jet / needle                         |     | —                 |
| Injection pressure                        | bar | 2.5±0.2           |
| Pump pressure                             | bar | —                 |
| Octane rating                             | RON | 95[E 95 RON]      |

|                 |                     |              |
|-----------------|---------------------|--------------|
| Ignition system | Nova / Corsa-A 1.6i | 1988 to 1992 |
|-----------------|---------------------|--------------|

|                                 |                    |                           |
|---------------------------------|--------------------|---------------------------|
| Type                            |                    | MSTS-h                    |
| Ignition coil                   |                    | Bosch DSZ-1, Delco        |
| Primary resistance              | ohms               | B: 0.72±0.07. D: 0.43     |
| Ballast resistor                | ohms               | —                         |
| Voltage - Tmnl 15(+) to earth   | V                  | —                         |
| Distributor                     |                    | Bosch                     |
| Points gap (air gap)            | mm                 | —                         |
| Dwell angle                     | ° (%)              | Electronic control        |
| Condenser capacity              | μF                 | —                         |
| Rotation                        |                    | Anticlockwise             |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 10±2 BTDC @ idle          |
| V = Vacuum NV = No Vacuum       |                    | NV                        |
| Total ignition advance          | ° Crankshaft @ rpm | —                         |
|                                 | ° Crankshaft @ rpm | —                         |
|                                 | ° Crankshaft @ rpm | —                         |
| Centrifugal check.              | ° Crankshaft @ rpm | Micro Spark Timing System |
|                                 | ° Crankshaft @ rpm | —                         |
|                                 | ° Crankshaft @ rpm | —                         |
| Vacuum range check              | mbar               | MSTS                      |
| Maximum vacuum advance          | ° Crankshaft       | —                         |
| Spark plugs                     |                    | AC/Champion               |
| Type                            |                    | CR42CXLS / RN7YC          |
| Electrode gap                   | mm                 | 0.70 to 0.80              |

|                   |                     |              |
|-------------------|---------------------|--------------|
| Electrical system | Nova / Corsa-A 1.6i | 1988 to 1992 |
|-------------------|---------------------|--------------|

|                                                     |             |                                |
|-----------------------------------------------------|-------------|--------------------------------|
| Battery                                             | V / CC / RC | 12 / 210 / 65 or / 175 / 60    |
| Alternator voltage / full load current / engine rpm |             | 13.7 to 14.75 / 55 or 65/ 3500 |
| Starter motor current / voltage - cranking          | A / V       | 30 to 45 / 7.8                 |

|                     |       |                                  |
|---------------------|-------|----------------------------------|
| locked              | A / V | 400 to 500 / 7.0 to 8.2          |
| <b>Running gear</b> |       | Nova / Coroa A 1.6i 1988 to 1993 |

## Rutina

| Brakes -                                 |    |                  |
|------------------------------------------|----|------------------|
| Front (min. friction material thickness) | mm | 7.0 with backing |

## Tyres

|                                  |      |           |  |
|----------------------------------|------|-----------|--|
| Tyres                            |      |           |  |
| Saloon                           | Size | 175/65x14 |  |
| Estate / Van                     | Size | —         |  |
| Pressure - front / rear - Saloon | bar  | 1.8 / 1.6 |  |

- Estate / Value

**Front suspension / wheel alignment**

| Front suspension / wheel alignment |        |                 |
|------------------------------------|--------|-----------------|
| Toe-in (+) / Toe-out (-)           | mm [°] | [-15' to +5']   |
| Camber                             |        | -45' to +45' L  |
| Castor                             |        | +45' to 2°45' L |
| King pin inclination               |        |                 |

### Bear suspension / wheel alignment

|                          |        |                |
|--------------------------|--------|----------------|
| Toe-in (+) / Toe-out (-) | mm [°] | 0 to +4.0      |
| Camber                   |        | -40' to -1°35' |

## Torque wrench settings

| Torque wrench settings  |    | Nova / Corsa-A 1.6i | 1988 to 1992 |
|-------------------------|----|---------------------|--------------|
| Cylinder head - stage 1 | Nm | 25 N                |              |
| - stage 2               | Nm | + 60°               |              |
| Cylinder head - stage 3 | Nm | + 60°               |              |
| - stage 4               | Nm | + 60°               |              |
| Big-end bearings        | Nm | 28²                 |              |
| Main bearings           | Nm | 50 +45° +15° N      |              |
| Clutch cover            | Nm | 15                  |              |
| Flywheel [driveplate]   | Nm | 35 +30° +15° N      |              |
| Front hubs              | Nm | WSM                 |              |
| Rear hubs               | Nm | WSM                 |              |
| Wheel nuts / bolts      | Nm | 110                 |              |
| Spark plugs             | Nm | 25                  |              |

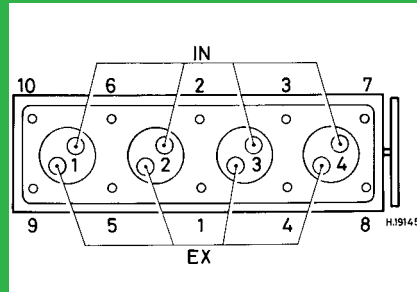
|            |                     |              |
|------------|---------------------|--------------|
| Capacities | Nova / Gersa-A 1.6i | 1988 to 1992 |
|------------|---------------------|--------------|

| Capacities                      |        | Nova / Corsa-A 1.0i | 1988 to 1992 |
|---------------------------------|--------|---------------------|--------------|
| Engine oil & filter             | litres | 3.5                 |              |
| Gearbox - 4-speed [5-speed]     | litres | 1.8                 |              |
| Automatic transmission - refill | litres | —                   |              |
| Final drive                     | litres | WT                  |              |
| Cooling system                  | litres | 6.1                 |              |
| Fuel tank                       | litres | 42                  |              |

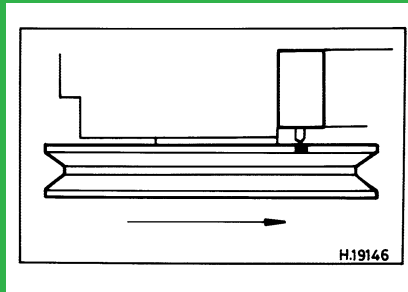
## Notes and Illustrations

2. 10-mm halt, 95 : 998 N

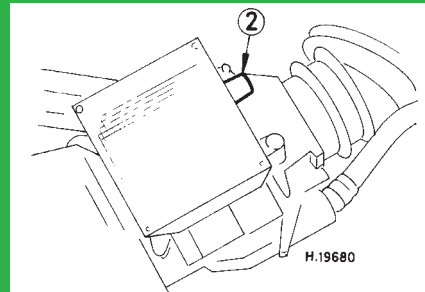
1: Idle speed      2: CO / Mixture



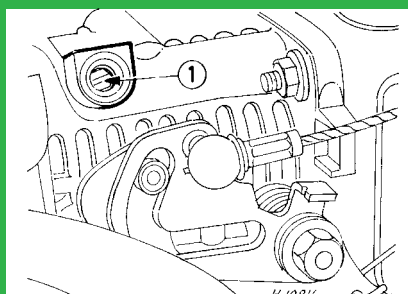
**1598 cm<sup>3</sup>. 8V**



**1598 cm<sup>3</sup>**



### 13 / 1 E3.1-Jetronic



**I 3 / I E3 1- Jetronic**