

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 system1.3 12 valve1990 to 1992

|                                                   |     |                 |
|---------------------------------------------------|-----|-----------------|
| Type                                              |     | 4G13-2 SOHC 12V |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1298 / 4        |
| Compression ratio / pressure                      | bar | 9.5 / 14.2      |
| Oil pressure                                      | bar | ≥0.76           |
| Oil temperature                                   | °C  | —               |
| Valve clearance - inlet                           | mm  | 0.15 H          |
| Valve clearance - exhaust                         | mm  | 0.25 H          |
| Firing order                                      |     | 1-3-4-2         |
| No 1 cylinder position                            |     | TBE             |
| Thermostat opening temperature                    | °C  | 88              |
| Radiator cap pressure                             | bar | 0.76 to 1.04    |

Fuel system1.3 12 valve1990 to 1992

|                                           |     |              |
|-------------------------------------------|-----|--------------|
| Idle speed - manual [auto]                | rpm | 800±50       |
| Fast idle speed - manual [auto]           | rpm | 1700±200     |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.0±0.5      |
| 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              |     | Aisan        |
| Type / ref                                |     | VV           |
| Main jet / needle                         |     | 03           |
| Injection pressure                        | bar | —            |
| Pump pressure                             | bar | 0.19 to 0.26 |
| Octane rating                             | RON | 92[E 95 RON] |

Ignition system1.3 12 valve1990 to 1992

|                                 |                    |                |
|---------------------------------|--------------------|----------------|
| Type                            |                    | Electronic     |
| Ignition coil                   |                    | In distributor |
| Primary resistance              | ohms               | 0.9 to 1.2     |
| Ballast resistor                | ohms               | —              |
| Voltage - Tmnl 15(+) to earth   | V                  | —              |
| Distributor                     |                    | Mitsubishi     |
| Points gap (air gap)            | mm                 | —              |
| Dwell angle                     | ° (%)              | —              |
| Condenser capacity              | µF                 | —              |
| Rotation                        |                    | Clockwise      |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 3±2 BTDC @ 800 |
| V = Vacuum NV = No Vacuum       |                    | V              |
| Total ignition advance          | ° Crankshaft @ rpm | —              |
|                                 | ° Crankshaft @ rpm | —              |
|                                 | ° Crankshaft @ rpm | —              |
| Centrifugal check.              | ° Crankshaft @ rpm | —              |
|                                 | ° Crankshaft @ rpm | —              |
|                                 | ° Crankshaft @ rpm | 15 @ 5800      |
| Vacuum range check              | mbar               | 173 to 347     |
| Maximum vacuum advance          | ° Crankshaft       | 10             |
| Spark plugs                     |                    | NGK/Champion   |
| Type                            |                    | BPR6ES / RN9YC |
| Electrode gap                   | mm                 | 0.70 to 0.80   |

Electrical system1.3 12 valve1990 to 1992

|                                                     |             |                         |
|-----------------------------------------------------|-------------|-------------------------|
| Battery                                             | V / CC / RC | 12 / 60Ah               |
| Alternator voltage / full load current / engine rpm |             | 13.4 to 14.9 / _ / 2500 |
| Starter motor current / voltage - cranking          | A / V       | —                       |
| - locked                                            | A / V       | —                       |

Running gear1.3 12 valve1990 to 1992

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 1.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 155x13    |
| Estate / Van                     | Size | —         |
| Pressure - front / rear - Saloon | bar  | 1.7 / 1.8 |
| - Estate / Van                   | bar  | —         |

|                                    |        |           |
|------------------------------------|--------|-----------|
| Front suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (–)           | mm [°] | 0±1.5     |
| Camber                             |        | 0±30'     |
| Castor                             |        | +1°6'±30' |
| King pin inclination               |        | —         |

|                                   |        |          |
|-----------------------------------|--------|----------|
| Rear suspension / wheel alignment |        |          |
| Toe-in (+) / Toe-out (–)          | mm [°] | 0        |
| Camber                            |        | -40'±35' |

Torque wrench settings1.3 12 valve1990 to 1992

|                         |    |            |
|-------------------------|----|------------|
| Cylinder head - stage 1 | Nm | 70 to 75 C |
| - stage 2               | Nm | 80 to 85 H |
| Cylinder head - stage 3 | Nm | —          |
| - stage 4               | Nm | —          |
| Big-end bearings        | Nm | 32 to 35   |
| Main bearings           | Nm | 50 to 55   |
| Clutch cover            | Nm | 15 to 22   |
| Flywheel [driveplate]   | Nm | 130 to 140 |
| Front hubs              | Nm | WSM        |
| Rear hubs               | Nm | 79 to 98   |
| Wheel nuts / bolts      | Nm | 80         |
| Spark plugs             | Nm | 20 to 30   |

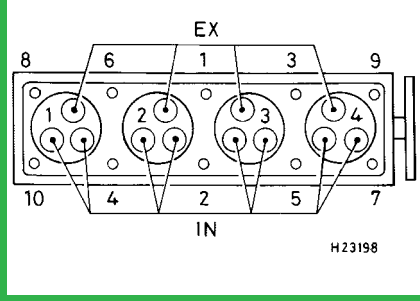
Capacities1.3 12 valve1990 to 1992

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.4 |
| Gearbox - 4-speed [5-speed]     | litres | 2.1 |
| Automatic transmission - refill | litres | —   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.0 |
| Fuel tank                       | litres | 45  |

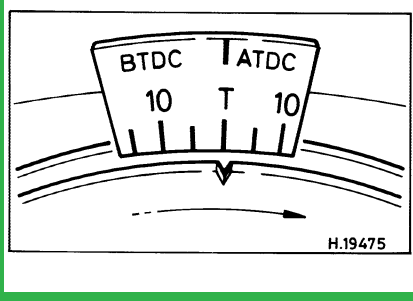
Notes and Illustrations



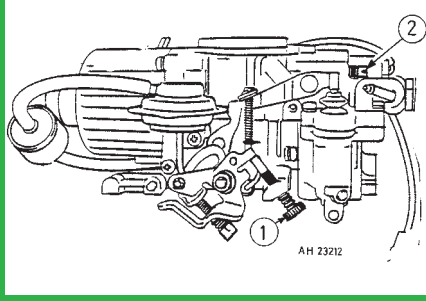
1: Idle speed      2: CO / Mixture



1298 cm<sup>3</sup>, 12V



1298 cm<sup>3</sup>, 12V



Aisan VV