

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemHijet1986 to 1990

|                                      |     |            |
|--------------------------------------|-----|------------|
| Type                                 |     | CD3        |
| Capacity (cm³) / number of cylinders |     | 843 / 3    |
| Compression ratio / pressure         | bar | 9.0 / 12.3 |
| Oil pressure                         | bar | [3.5]      |
| Oil temperature                      | °C  | 80         |
| Valve clearance - inlet              | mm  | 0.20 H     |
| Valve clearance - exhaust            | mm  | 0.20 H     |
| Firing order                         |     | 1-2-3      |
| No 1 cylinder position               |     | TBE        |
| Thermostat opening temperature       | °C  | 88         |
| Radiator cap pressure                | bar | 0.9        |

Fuel systemHijet1986 to 1990

|                                           |     |              |
|-------------------------------------------|-----|--------------|
| Idle speed - manual [auto]                | rpm | 850±50       |
| Fast idle speed - manual [auto]           | rpm | 2800 to 3200 |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5 to 3.0   |
| 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                                |     | 1V E30AD     |
| Main jet / needle                         |     | 127          |
| Injection pressure                        | bar | —            |
| Pump pressure                             | bar | 0.19 to 0.30 |
| Octane rating                             | RON | 91[E 95 RON] |

Ignition systemHijet1986 to 1990

|                                 |                    |                       |
|---------------------------------|--------------------|-----------------------|
| Type                            |                    | Contact breaker - CIS |
| Ignition coil                   |                    | —                     |
| Primary resistance              | ohms               | 1.0 to 1.1            |
| Ballast resistor                | ohms               | —                     |
| Voltage - Tmnl 15(+) to earth   | V                  | —                     |
| Distributor                     |                    | Toyo Denso            |
| Points gap (air gap)            | mm                 | 0.40 to 0.50          |
| Dwell angle                     | ° (%)              | 58 to 66              |
| Condenser capacity              | µF                 | 0.27                  |
| Rotation                        |                    | Clockwise             |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 4±2 BTDC @ idle       |
| V = Vacuum   NV = No Vacuum     |                    | NV                    |
| Total ignition advance          | ° Crankshaft @ rpm | —                     |
|                                 | ° Crankshaft @ rpm | —                     |
|                                 | ° Crankshaft @ rpm | —                     |
| Centrifugal check.              | ° Crankshaft @ rpm | 0 @ 1200 to 1600      |
|                                 | ° Crankshaft @ rpm | —                     |
|                                 | ° Crankshaft @ rpm | 15 to 17 @ 2800       |
| Vacuum range check              | mbar               | 133 to 560            |
| Maximum vacuum advance          | ° Crankshaft       | 13 to 15              |
| Spark plugs                     |                    | NGK/Champion          |
| Type                            |                    | BPR5EY / RN12YC       |
| Electrode gap                   | mm                 | 0.70 to 0.80          |

Electrical systemHijet1986 to 1990

|                                                     |             |                         |
|-----------------------------------------------------|-------------|-------------------------|
| Battery                                             | V / CC / RC | 12 / 28Ah               |
| Alternator voltage / full load current / engine rpm |             | 14.2 to 14.8 / _ / 3000 |
| Starter motor current / voltage - cranking          | A / V       | —                       |
| - locked                                            | A / V       | —                       |

Running gearHijet1986 to 1990

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.5 |

|                                  |      |        |
|----------------------------------|------|--------|
| Tyres                            |      |        |
| Saloon                           | Size | —      |
| Estate / Van                     | Size | 145x12 |
| Pressure - front / rear - Saloon | bar  | —      |
| - Estate / Van                   | bar  | WSM    |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (–)           | mm [°] | +9.0±4.0     |
| Camber                             |        | +1°55'±1°30' |
| Castor                             |        | +3°±30'      |
| King pin inclination               |        | +11°2'±1°30' |

|                                   |        |   |
|-----------------------------------|--------|---|
| Rear suspension / wheel alignment |        |   |
| Toe-in (+) / Toe-out (–)          | mm [°] | — |
| Camber                            |        | — |

Torque wrench settingsHijet1986 to 1990

|                         |    |          |
|-------------------------|----|----------|
| Cylinder head - stage 1 | Nm | 49 to 58 |
| - stage 2               | Nm | —        |
| Cylinder head - stage 3 | Nm | —        |
| - stage 4               | Nm | —        |
| Big-end bearings        | Nm | 20 to 28 |
| Main bearings           | Nm | 53 to 65 |
| Clutch cover            | Nm | 7 to 10  |
| Flywheel [driveplate]   | Nm | 43 to 49 |
| Front hubs              | Nm | WSM      |
| Rear hubs               | Nm | —        |
| Wheel nuts / bolts      | Nm | 34 to 54 |
| Spark plugs             | Nm | —        |

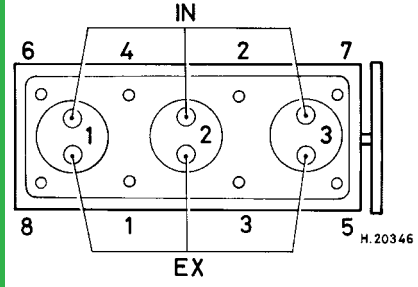
CapacitiesHijet1986 to 1990

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 2.9 |
| Gearbox - 4-speed [5-speed]     | litres | 0.7 |
| Automatic transmission - refill | litres | —   |
| Final drive                     | litres | 0.6 |
| Cooling system                  | litres | 4.1 |
| Fuel tank                       | litres | 36  |

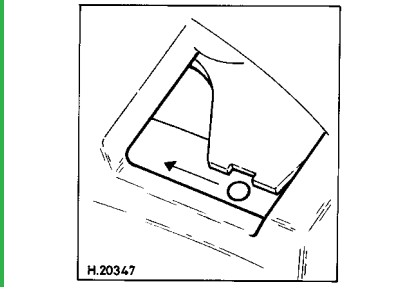
Notes and Illustrations



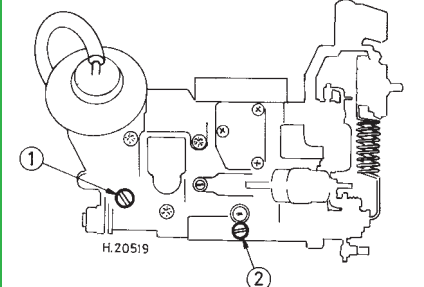
1: Idle speed      2: CO / Mixture



843 cm³



843 cm³



1V, 843 cm³