



|                 |              |
|-----------------|--------------|
| Micra 1.0 (K10) | 1989 to 1990 |
|-----------------|--------------|

|                                                   |                 |                           |
|---------------------------------------------------|-----------------|---------------------------|
| Type                                              | MA10S SOHC 40kW |                           |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 988 / 4         |                           |
| Compression ratio / pressure                      | bar             | 10.3 / $\pm 11.3$ to 13.2 |
| Oil pressure                                      | bar             | [2.9]                     |
| Oil temperature                                   | °C              | -                         |
| Valve clearance - inlet                           | mm              | 0.25 H                    |
| Valve clearance - exhaust                         | mm              | 0.30 H                    |
| Firing order                                      | 1-3-4-2         |                           |
| No 1 cylinder position                            | TBE             |                           |
| Thermostat opening temperature                    | °C              | 88                        |
| Radiator cap pressure                             | bar             | 0.90                      |

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|                                           |     |                             |
|-------------------------------------------|-----|-----------------------------|
| Idle speed - manual [auto]                | rpm | 800±50 A/C: 850±50          |
| Fast idle speed - manual [auto]           | rpm | 1700 to 2100 [1800 to 2200] |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5±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              |     | Hitachi                     |
| Type / ref                                |     | DC2306-91A [AT: -92A]       |
| Main jet / needle                         |     | 94, 130                     |
| Injection pressure                        | bar |                             |
| Pump pressure                             | bar | 0.20 to 0.27                |
| Octane rating                             | RON | 97(RA)                      |

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|                                                              |                                                                                      |                                                                                   |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Type                                                         |                                                                                      | Electronic                                                                        |
| Ignition coil                                                |                                                                                      | Mitsubishi, Hitachi                                                               |
| Primary resistance                                           | ohms                                                                                 | 1.0 to 1.2                                                                        |
| Ballast resistor                                             | ohms                                                                                 | —                                                                                 |
| Voltage - Tmnl 15(+) to earth                                | V                                                                                    | —                                                                                 |
| Distributor                                                  |                                                                                      | Hitachi/Mitsubishi                                                                |
| Points gap (air gap)                                         | mm                                                                                   | [0.30 to 0.45]                                                                    |
| Dwell angle                                                  | ° (%)                                                                                | —                                                                                 |
| Condenser capacity                                           | µF                                                                                   | —                                                                                 |
| Rotation                                                     |                                                                                      | Anticlockwise                                                                     |
| Ignition timing - basic [static<br>V = Vacuum NV = No Vacuum | ° Crankshaft @ rpm                                                                   | 12±5 BTDC @ idle <sup>1</sup><br>NV                                               |
| Total ignition advance                                       | ° Crankshaft @ rpm<br>° Crankshaft @ rpm<br>° Crankshaft @ rpm                       | 12±5 BTDC @ idle <sup>2</sup><br>—<br>—                                           |
| Centrifugal check.                                           | ° Crankshaft @ rpm<br>° Crankshaft @ rpm<br>° Crankshaft @ rpm<br>° Crankshaft @ rpm | 0 @ 900 to 1300<br>10 @ 2200 to 2500<br>13 to 17 @ 3000<br>80 to 313 <sup>3</sup> |
| Vacuum range check                                           | mbar                                                                                 | 16 At: 11                                                                         |
| Maximum vacuum advance                                       | ° Crankshaft                                                                         | NGK/Champion                                                                      |
| Spark plug                                                   |                                                                                      | BRP5ES / RN9YC                                                                    |
| Type                                                         |                                                                                      | 0.80 to 0.90                                                                      |
| Electrode gap                                                | mm                                                                                   |                                                                                   |

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|                                                     |             |                              |
|-----------------------------------------------------|-------------|------------------------------|
| Battery                                             | V / CC / RC | 12 / 45Ah                    |
| Alternator voltage / full load current / engine rpm |             | 14.1 to 14.7 / _ / 2500      |
| Starter motor current / voltage - cranking          | A / V       | 55 [AT: 65] / 11.5 (no load) |
| - locked                                            | A / V       |                              |

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|                                           |        |                       |
|-------------------------------------------|--------|-----------------------|
| <b>Brakes -</b>                           |        |                       |
| Front (min. friction material thickness)  | mm     | 2.0                   |
| Rear (min. friction material thickness)   | mm     | 1.5                   |
| <b>Tyres</b>                              |        |                       |
| Saloon                                    | Size   | 155/70x13: 175/60x13  |
| Estate / Van                              | Size   |                       |
| Pressure - front / rear - Saloon          | bar    | 1.9 / 1.9             |
| - Estate / Van                            | bar    |                       |
| <b>Front suspension / wheel alignment</b> |        |                       |
| Toe-in (+) / Toe-out (-)                  | mm [°] | +2.0 to 4.0           |
| Camber                                    |        | -25° to +1'25" N/A    |
| Castor                                    |        | +1'30" to 3° N/A      |
| King pin inclination                      |        | +12'25" to 13'55" N/A |
| <b>Rear suspension / wheel alignment</b>  |        |                       |
| Toe-In (+) / Toe-out (-)                  | mm [°] | -                     |
| Camber                                    |        | -                     |

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|                         |    |                       |
|-------------------------|----|-----------------------|
| Cylinder head - stage 1 | Nm | 34 to 39              |
| - stage 2               | Nm | 64 to 69              |
| Cylinder head - stage 3 | Nm | -                     |
| - stage 4               | Nm | -                     |
| Big-end bearings        | Nm | 29 to 34              |
| Main bearings           | Nm | 46 to 52 in stages    |
| Clutch cover            | Nm | 22 to 29              |
| Flywheel (driveplate)   | Nm | 59 to 69 <sup>4</sup> |
| Front hubs              | Nm | 147 to 206            |
| Rear hubs               | Nm | 186 to 295            |
| Wheel nuts / bolts      | Nm | 78 to 98              |
| Spark plugs             | Nm | 25 to 29              |

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|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 2.8 |
| Gearbox - 4-speed [5-speed]     | litres | 2.6 |
| Automatic transmission - refill | litres | 6.0 |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 4.3 |
| Fuel tank                       | litres | 40  |

<sup>1</sup>[E 95 RON]: 11±5 BTDC @ idle  
<sup>2</sup>95 RON: 11±5 BTDC @ idle  
<sup>3</sup>[AT: 187 to 373]  
<sup>4</sup>[70 to 80]

Hitachi DCZ