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Automotive Technical DATA BOOK

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HELP

Engine and cooling system 55A & Tempo, 1116 cm³ 1986 to 1993

| | | |
|---|-----|--------------|
| Type | | 128A. 064 |
| Capacity (cm ³) / number of cylinders | | 1116 / 4 |
| Compression ratio / pressure | bar | 9.2 / _ |
| Oil pressure | bar | [3.5 to 4.8] |
| Oil temperature | °C | 100 |
| Valve clearance - inlet | mm | 0.35 to 0.55 |
| - exhaust | mm | 0.45 to 0.55 |
| Firing order | | 1-3-4-2 |
| No 1 cylinder position | | TBE |
| Thermostat opening temperature | °C | 82±2 |
| Radiator cap pressure | bar | 0.8 |

Fuel system 55A & Tempo, 1116 cm³ 1986 to 1993

| | | |
|---|-----|------------------------|
| Idle speed - manual [auto] | rpm | 850±50 |
| Fast idle speed - manual [auto] | rpm | _ |
| CO @ idle speed [3000 rpm] - see page VI | % | 1.0 to 2.0 |
| HC @ idle speed [3000 rpm] - see page VI | ppm | ≤1200 |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| Carburettor / fuel injection | | IPM |
| Type / ref | | 32 MGV 12 (Weber type) |
| Main jet / needle | | 115 |
| Injection pressure | bar | _ |
| Pump pressure | bar | 0.25 to 0.35 |
| Octane rating | RON | 97[RA] ¹ |

Ignition system 55A & Tempo, 1116 cm³ 1986 to 1993

| | | |
|---------------------------------|--------------------|-------------------------------|
| Type | | Electronic |
| Ignition coil | | Bosch |
| Primary resistance | ohms | 0.7 |
| Ballast resistor | ohms | _ |
| Voltage - Tmnl 15(+) to earth | V | _ |
| Distributor | | Rudi Cajavec/Bosch |
| Points gap (air gap) | mm | _ |
| Dwell angle | ° (%) | _ |
| Condenser capacity | µF | _ |
| Rotation | | Clockwise |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 10 BTDC @ 850±50 ¹ |
| V = Vacuum NV = No Vacuum | | NV |
| Total ignition advance | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| Centrifugal check. | ° Crankshaft @ rpm | 0 to 5 @ 1500 |
| | ° Crankshaft @ rpm | 12 to 16 @ 3000 |
| | ° Crankshaft @ rpm | 22 to 26 @ 4300 |
| Vacuum range check | mbar | 213 to 453 |
| Maximum vacuum advance | ° Crankshaft | 10 to 14 |
| Spark plugs | | Bosch/Champion |
| Type | | WR7DC / RN9YC |
| Electrode gap | mm | 0.75 |

Electrical system 55A & Tempo, 1116 cm³ 1986 to 1993

| | | |
|---|-------------|-----------------------|
| Battery | V / CC / RC | 12 / 370 / 45Ah |
| Alternator voltage / full load current / engine rpm | | 14.0 / _ / 2500 |
| Starter motor current / voltage - cranking | A / V | 175 to 180 / 9.4 |
| - locked | A / V | 300 to 330 / 7 to 7.2 |

Running gear 55A & Tempo, 1116 cm³ 1986 to 1993

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

| | | |
|----------------------------------|------|-----------|
| Tyres | | |
| Saloon | Size | 145x13 |
| Estate / Van | Size | 145x13 |
| Pressure - front / rear - Saloon | bar | 1.7 / 1.8 |
| - Estate / Van | bar | 1.7 / 1.8 |

Front suspension / wheel alignment

| | | |
|--------------------------|--------|------------|
| Toe-in (+) / Toe-out (-) | mm [°] | 0±1.0 L |
| Camber | | +1°30'±30' |
| Castor | | +2°15'±30' |
| King pin inclination | | _ |

Rear suspension / wheel alignment

| | | |
|--------------------------|--------|----------|
| Toe-in (+) / Toe-out (-) | mm [°] | +4.0±2.0 |
| Camber | | -3°±30' |

Torque wrench settings 55A & Tempo, 1116 cm³ 1986 to 1993

| | | |
|-------------------------|----|-----------------|
| Cylinder head - stage 1 | Nm | 93 ² |
| - stage 2 | Nm | _ |
| - stage 3 | Nm | _ |
| - stage 4 | Nm | _ |
| Big-end bearings | Nm | 51 |
| Main bearings | Nm | 80 |
| Clutch cover | Nm | 16 |
| Flywheel [driveplate] | Nm | 83 |
| Front hubs | Nm | 137 |
| Rear hubs | Nm | 137 |
| Wheel nuts / bolts | Nm | 79 |
| Spark plugs | Nm | 37 |

Capacities 55A & Tempo, 1116 cm³ 1986 to 1993

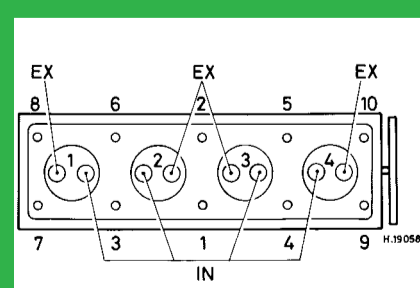
| | | |
|---------------------------------|--------|-----|
| Engine oil & filter | litres | 4.5 |
| Gearbox - 4-speed [5-speed] | litres | 3.2 |
| Automatic transmission - refill | litres | _ |
| Final drive | litres | WT |
| Cooling system | litres | 6.5 |
| Fuel tank | litres | 30 |

Notes and Illustrations

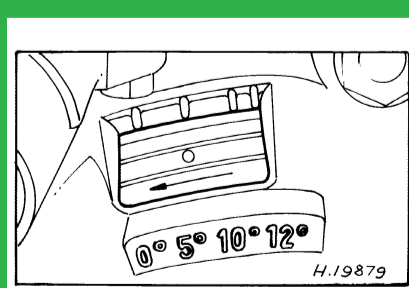
¹[E 95 RON]: 5° BTDC

²Engine no. 951668 ▶: S1: 20. S2: 40. S3: + 90° S4: + 90°. New bolts after 4 removals

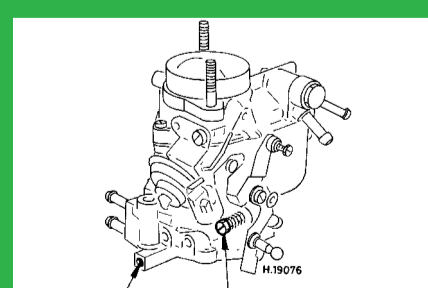
1: Idle speed 2: CO / Mixture



1116 cm³



1116 cm³



IPM 32 MGV 12