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HELP

Engine and cooling system 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|---|-----|----------------|
| Type | | J7R-7-52 131kW |
| Capacity (cm ³) / number of cylinders | | 1995 / 4 |
| Compression ratio / pressure | bar | 8.0 / _ |
| Oil pressure | bar | 1.0 [3.0] |
| Oil temperature | °C | 80 |
| Valve clearance - inlet | mm | 0.10 to 0.15 |
| Valve clearance - exhaust | mm | 0.20 to 0.25 |
| Firing order | | 1-3-4-2 |
| No 1 cylinder position | | FE |
| Thermostat opening temperature | °C | 89 to 101 |
| Radiator cap pressure | bar | 1.6 |

Fuel system 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|---|-----|------------------|
| Idle speed - manual [auto] | rpm | 800±25 N/A |
| Fast idle speed - manual [auto] | rpm | _ |
| CO @ idle speed [3000 rpm] - see page VI | % | 1.5±0.5 |
| 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 | | Renix |
| Type / ref | | R electronic MPI |
| Main jet / needle | | _ |
| Injection pressure | bar | 2.0±0.2 |
| Pump pressure | bar | 3.0±0.2 |
| Octane rating | RON | 98[E 95 RON] |

Ignition system 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|---------------------------------|--------------------|-----------------|
| Type | | AEI |
| Ignition coil | | Renix |
| Primary resistance | ohms | 0.4 to 0.8 |
| Ballast resistor | ohms | _ |
| Voltage - Tmnl 15(+) to earth | V | _ |
| Distributor | | Renix |
| Points gap (air gap) | mm | _ |
| Dwell angle | ° (%) | _ |
| Condenser capacity | µF | _ |
| Rotation | | _ |
| Ignition timing - basic [static | ° Crankshaft @ rpm | AEI control |
| V = Vacuum NV = No Vacuum | | _ |
| Total ignition advance | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| Centrifugal check. | ° Crankshaft @ rpm | AEI control |
| | ° Crankshaft @ rpm | _ |
| | ° Crankshaft @ rpm | _ |
| Vacuum range check | mbar | AEI control |
| Maximum vacuum advance | ° Crankshaft | _ |
| Spark plugs | | Eyquem/Champion |
| Type | | 803LJSP / S6YC |
| Electrode gap | mm | 0.60±0.05 |

Electrical system 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|---|-------------|-------------------------|
| Battery | V / CC / RC | 12 / 210 / 65 |
| Alternator voltage / full load current / engine rpm | | 13.5 to 14.8 / _ / 3000 |
| Starter motor current / voltage - cranking | A / V | _ |
| - locked | A / V | 400 / _ |

Running gear 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|--|----|------------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 6.0 with backing |
| Rear (min. friction material thickness) | mm | 6.0 with backing |

| | | |
|----------------------------------|------|-----------|
| Tyres | | |
| Saloon | Size | 195/55x15 |
| Estate / Van | Size | _ |
| Pressure - front / rear - Saloon | bar | 2.5 / 2.3 |
| - Estate / Van | bar | _ |

Front suspension / wheel alignment

| | | |
|--------------------------|--------|-------------|
| Toe-in (+) / Toe-out (-) | mm [°] | -1.0±1.0 |
| Camber | | -30'±30' |
| Castor | | +5°20'±30' |
| King pin inclination | | +11°55'±30' |

Rear suspension / wheel alignment

| | | |
|--------------------------|--------|--------------------------------------|
| Toe-in (+) / Toe-out (-) | mm [°] | +2.0 to 5.0' |
| Camber | | -40'±10'. ² 4x4: -30'±10' |

Torque wrench settings 21 Turbo & 4x4 (L485) 1988 to 1992

| | | |
|-------------------------|----|------------------------------|
| Cylinder head - stage 1 | Nm | 20 |
| - stage 2 | Nm | + 105° + 105° |
| Cylinder head - stage 3 | Nm | Run for 15mins. |
| - stage 4 | Nm | Cool for 3 hours, then + 20° |
| Big-end bearings | Nm | 45 to 50 |
| Main bearings | Nm | 88 to 98 |
| Clutch cover | Nm | 25 |
| Flywheel [driveplate] | Nm | 60 |
| Front hubs | Nm | 250 |
| Rear hubs | Nm | 160. 4x4: 210 |
| Wheel nuts / bolts | Nm | 100 |
| Spark plugs | Nm | _ |

Capacities 21 Turbo & 4x4 (L485) 1988 to 1992

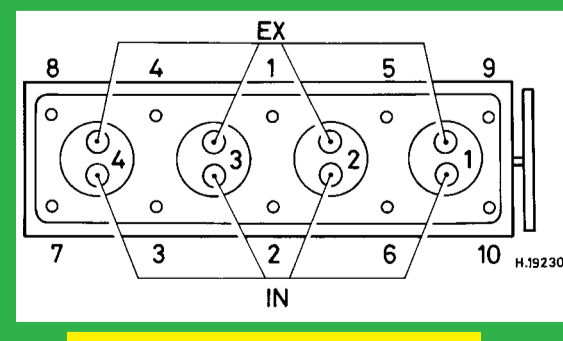
| | | |
|---------------------------------|--------|---------------|
| Engine oil & filter | litres | 6.2 |
| Gearbox - 4-speed [5-speed] | litres | 3.0. 4x4: 3.5 |
| Automatic transmission - refill | litres | _ |
| Final drive | litres | 4x4 rear: 1.3 |
| Cooling system | litres | 6.2 |
| Fuel tank | litres | 66. 4x4: 62 |

Notes and Illustrations

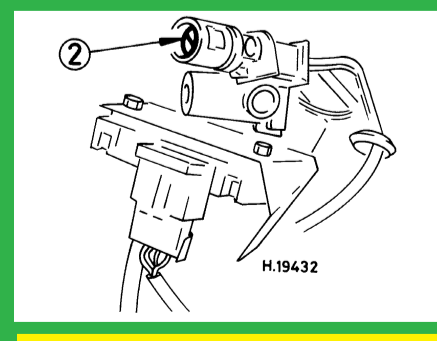
¹4x4: +3.0 to 5.0

²91 ▶: -20'±10'

1: Idle speed 2: CO / Mixture



1995 cm³, 8V



Renix R electronic