ALFA ROMEO

Fuel

33, 1.5IE & 4x4 & CAT

1990 to 1994

Notes &

Engine &

Cooling

Ignition

Electrical

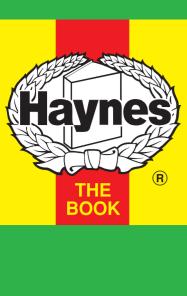
gear

Running

Torque settings

Capacities

Illustrations



Automotive Technical

make another choice, click anywhere on the data screen. **MENU HELP**

Click on one of the buttons above to view data for this car. To return to this screen and

33, 1.5IE & 4x4 & CAT 307.50 71kW. CAT: 307.51 70kW

1990 to 1994

Oil pressure Oil temperature Valve clearance - inlet

Engine and cooling system

Capacity (cm³) / number of cylinders

Compression ratio / pressure

clearance - exhaust Firing order

No 1 cylinder position Thermostat opening temperature Radiator cap pressure Fuel system

Fast idle speed - manual [auto] CO @ idle speed [3000 rpm] - see page VI HC @ idle speed [3000 rpm] - see page VI CO2 @ idle speed [3000 rpm] - see page VI O2 @ idle speed [3000 rpm] - see page VI Carburettor / fuel injection

Idle speed - manual [auto]

Type / ref Main jet / needle Injection pressure Pump pressure Octane rating

Ignition system Type Ignition coil Ballast resistor

Primary resistance Voltage - Tmnl 15(+) to earth Distributor Points gap (air gap)

Dwell angle Condenser capacity Rotation Ignition timing - basic [static V = Vacuum NV = No Vacuum Total ignition advance

Centrifugal check. Vacuum range check Maximum vacuum advance Spark plugs

Type

Electrode gap

Running gear

Brakes -

Electrical system Battery Alternator voltage / full load current / engine rpm Starter motor current / voltage - cranking

Front (min. friction material thickness) Rear (min. friction material thickness) **Tyres** Saloon Estate / Van

Pressure - front / rear - Saloon Front suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber

Castor King pin inclination Rear suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber

Torque wrench settings Cylinder head - stage 1 - stage 2

- stage 4 Big-end bearings Main bearings Clutch cover Flywheel [driveplate]

Cylinder head - stage 3

Capacities Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill

Final drive

Wheel nuts / bolts

Front hubs

Rear hubs

Spark plugs

Fuel tank **Notes and Illustrations** ¹CAT: 95 [U]

Cooling system

³Transverse screws: 40 to 49 ⁴Disc brakes: 250 to 300

1490 cm³

mm

mm

°C

bar

rpm

rpm

ppm

%

% %

bar

bar **RON**

ohms

ohms

V

mm ° (%)

μF

mbar

mm

A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

litres

litres

litres

litres

litres

litres

²Warm engine, cool, slacken, oil, and retorque bolts in sequence shown to stage 4. No.7: 20 to 24

 $[0\pm 25']$

29 oiled

81 to 87

81 to 87²

43 to 48

15 to 23

WSM⁴

4.0

2.6

7.8

427 to 472

88 to 108

25 to 34

66 to 73 oiled³

94 to 105 oiled

58

0±25'

° Crankshaft

V/CC/RC

- locked

- Estate / Van

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm

bar bar °C

1490 / 4 9.5 / 90

1.2 to 2.8 0.35 to 0.40 0.45 to 0.50 1-3-2-4 FR 84 to 88

0.9 to 1.1

33, 1.5IE & 4x4 & CAT 800 to 900. CAT: 900 to 1050 ≤0.5

≤300 **Bosch** LE3-Jetronic 2.8 to 3.2

98[E 95 RON]1 33, 1.5IE & 4x4 & CAT Electronic **Bosch** 0.7 to 1.0

12.0

[0.40 to 0.50]

Clockwise 8±1 BTDC @ 900 (1st mark) NV

32 BTDC @ 5250

-1 to +1 @ 2000 -1 to +2 @ 3000 16 to 20 @ 6000 100 to 400 16 to 20

Lodge/Champion 25HL / N6YCC Champion: 0.80 33, 1.5IE & 4x4 & CAT 12 / 225 / 50, 255 / 55Ah 14.0 / 55 / 4000 200 to 230 / 9.8 to 10.0 380 to 400 / 8.0

1990 to 1994

33, 1.5IE & 4x4 & CAT 7.0 with backing 0.50. Discs: 6.5 175/70x13: 185/60x14

175/70x13: 185/60x14 1.8 / 1.8 2.2 / 1.8

-4.0±2.0 +1°14′±30′ +2°±30′

33, 1.5IE & 4x4 & CAT

1990 to 1994 33, 1.5IE & 4x4 & CAT 4x4 rear: 1.0 50. 4x4: 53

1490 cm³

H.20082