

Engine & Cooling

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Engine and cooling system

Alpine GTA V6 Turbo (D501)

1986 to 1992

Type		Z7U-C7-30 149kW
Capacity (cm³) / number of cylinders		2458 / 0
Compression ratio / pressure	bar	8.6 / _
Oil pressure	bar	2.2 [4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-6-3-5-2-4
No 1 cylinder position		RL
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.9

Fuel system

Alpine GTA V6 Turbo (D501)

1986 to 1992

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Renix
Type / ref		R electronic + Turbo
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0
Octane rating	RON	98[L]

Ignition system

Alpine GTA V6 Turbo (D501)

1986 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		Clockwise
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		805 LJSP / S6YC
Electrode gap	mm	0.65±0.05

Electrical system

Alpine GTA V6 Turbo (D501)

1986 to 1992

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Alpine GTA V6 Turbo (D501)

1986 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	Ft 195/50x15. Rr 225/50x15 ¹
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	Ft. Mich:1.8. Pir:2.0 ²
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.0
Camber		-40'±20'
Castor		+5°±30'
King pin inclination		+7°35'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.5±0.5
Camber		-2°20'±30'

Torque wrench settings

Alpine GTA V6 Turbo (D501)

1986 to 1992

Cylinder head - stage 1	Nm	60, then slacken bolts
- stage 2	Nm	20 + 127 ^{°3}
Cylinder head - stage 3	Nm	Warm up engine ⁴
- stage 4	Nm	+ 25 ^{°5}
Big-end bearings	Nm	45
Main bearings	Nm	30 + 70°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45
Front hubs	Nm	250
Rear hubs	Nm	250
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	_

Capacities

Alpine GTA V6 Turbo (D501)

1986 to 1992

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	15.0
Fuel tank	litres	73

Notes and Illustrations

¹Or 255/50x15

²Rear, 225: 2.5. 255: 2.4

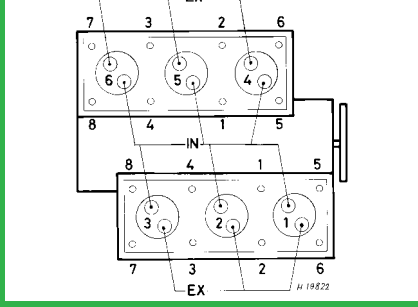
³89 ►: 20 + 106°

⁴89 ►: Warm up engine, then cool

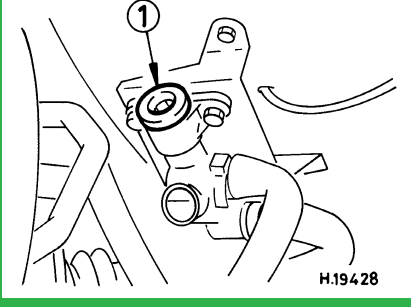
⁵89 ►: + 45°

1: Idle speed

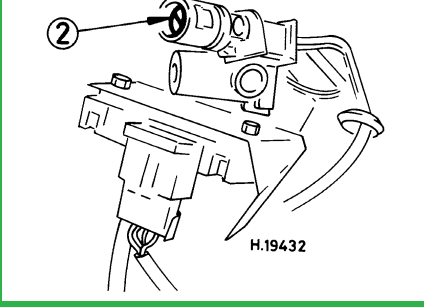
2: CO / Mixture



2458 cm³



Renix R



Renix R