

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Alpine GTA V6 (D500)

1986 to 1992

Type		Z6W-A7-00 119kW
Capacity (cm³) / number of cylinders		2849 / 6
Compression ratio / pressure	bar	9.5 / _
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 (D500)

1986 to 1992

Idle speed - manual [auto]	rpm	850±25
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
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		Solex
Type / ref		34 TBIA 838 & 35 CEEI 839
Main jet / needle		TBIA: 130. CEEI: 145, 145
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	98[L]

Ignition system

Alpine GTA V6 (D500)

1986 to 1992

Type		Electronic
Ignition coil		Ducellier
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Renix
Points gap (air gap)	mm	[1.00±0.50]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	R340-J18
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	13 to 17 @ 2000
	° Crankshaft @ rpm	23 to 27 @ 4000
Vacuum range check	mbar	150 to 230
Maximum vacuum advance	° Crankshaft	7 to 11
Spark plugs		Eyquem/Champion
Type		803 LJS, LJSP / S279YC
Electrode gap	mm	0.60 to 0.70

Electrical system

Alpine GTA V6 (D500)

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 (D500)

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 190/55x365. Rr 220/55x365
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.6 / 2.1
- 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 (D500)

1986 to 1992

Cylinder head - stage 1	Nm	60, then slacken bolts
- stage 2	Nm	20 + 115°
Cylinder head - stage 3	Nm	Warm up, cool, slacken bolts
- stage 4	Nm	20 + 115°
Big-end bearings	Nm	45
Main bearings	Nm	30 + 75°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45
Front hubs	Nm	160
Rear hubs	Nm	250
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities

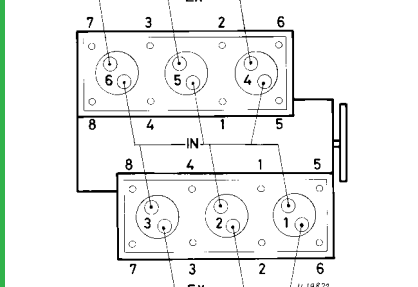
Alpine GTA V6 (D500)

1986 to 1992

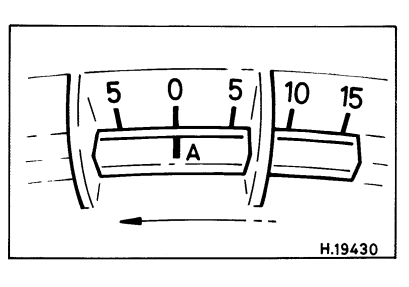
Engine oil & filter	litres	7.0
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	15.0
Fuel tank	litres	72

Notes and Illustrations

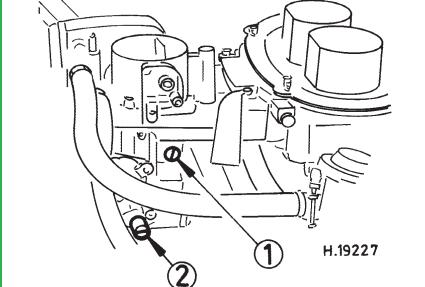
1: Idle speed 2: CO / Mixture



2849 cm³



2849 cm³



Solex TBIA / CEEI