

Engine & Cooling Fuel Ignition Electrical Running gear Torque settings Capacities Notes & Illustrations



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system Esprit Turbo HC 1987 to 1993

Type		910S DOHC 16V
Capacity (cm ³) / number of cylinders		2173 / 4
Compression ratio / pressure	bar	8.0 / ≥9.5
Oil pressure	bar	0.35 [2.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.18
Valve clearance - exhaust	mm	0.25 to 0.31
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system Esprit Turbo HC 1987 to 1993

Idle speed - manual [auto]	rpm	900 to 1000
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
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		Dellorto
Type / ref		DHLA 45M
Main jet / needle		160
Injection pressure	bar	—
Pump pressure	bar	0.27±0.02
Octane rating	RON	97[E 95 RON]

Ignition system Esprit Turbo HC 1987 to 1993

Type		Electronic
Ignition coil		Lucas 32C5
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	≤1.0 below battery voltage
Distributor		Lucas
Points gap (air gap)	mm	[0.2 to 0.35]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	11 @ 2000
	° Crankshaft @ rpm	8 @ 5000
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	28
Spark plugs		NGK/Champion
Type		BPR6EY / RN7YC
Electrode gap	mm	0.90

Electrical system Esprit Turbo HC 1987 to 1993

Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Esprit Turbo HC 1987 to 1993

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.5
Tyres		
Saloon	Size	Fr. 195/60x15. Rr. 235/60x15 ¹
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.5 / 1.7
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6+0-1.0 PW
Camber		-30'±30'
Castor		+1°45' to 3°
King pin inclination		+9°23'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.5±0.5 PW
Camber		-30'±15'

Torque wrench settings Esprit Turbo HC 1987 to 1993

Cylinder head - stage 1	Nm	Front & rear pairs: 97 ²
- stage 2	Nm	3 centre pairs: 104 ²
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	114 to 117
Main bearings	Nm	M12: 88. M8: 20
Clutch cover	Nm	23 to 26
Flywheel [driveplate]	Nm	75
Front hubs	Nm	29
Rear hubs	Nm	270
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	33 to 38

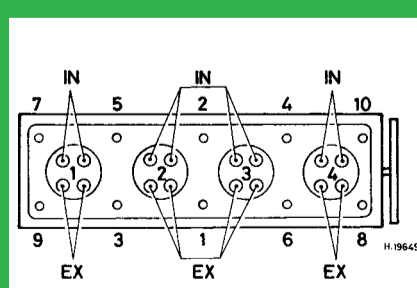
Capacities Esprit Turbo HC 1987 to 1993

Engine oil & filter	litres	5.4
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	12.0
Fuel tank	litres	78

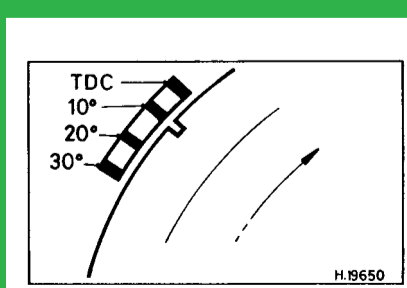
Notes and Illustrations

- ¹Alternatives: 215/50x15: 245/50x16
- ²Tighten evenly and gradually to these figures

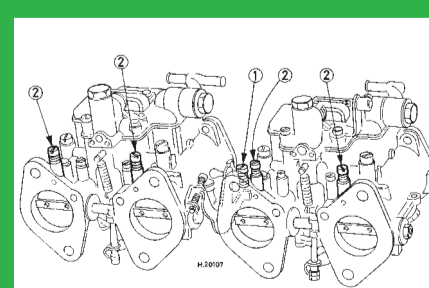
1: Idle speed 2: CO / Mixture



2173 cm³



2173 cm³



Dellorto DHLA