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

		Delta HF 4x4/Integrale 1988 to 1989
Type		831 B5./C5.000 DOHC (133kW)
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.0±0.1 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	ºC	100
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±0.04
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	81 to 85
Radiator cap pressure	bar	0.98

Fuel system

		Delta HF 4x4/Integrale 1988 to 1989
Idle speed - manual [auto]	rpm	800 to 900
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		IAW + Garrett T3 turbo
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≤4.5
Octane rating	RON	98[R]

Ignition system

		Delta HF 4x4/Integrale 1988 to 1989
Type		AEI
Ignition coil		Marelli BAE 504CK or AEI600A
Primary resistance	ohms	0.42 to 0.50
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	15±2 BTDC @ 800 to 850
	º Crankshaft @ rpm	40±2 BTDC @ 4000
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Bosch/Champion
Type		WR6DC / RN7YC[1]
Electrode gap	mm	0.60 to 0.70[1]

Electrical system

		Delta HF 4x4/Integrale 1988 to 1989
Battery	V / CC / RC	12 / 225 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2
- locked	A / V	530 to 570 / 6.6

Running gear

		Delta HF 4x4/Integrale 1988 to 1989
Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	185/60x14: 195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	-2.0±1.5[2]
Camber		-40'±30' N/A
Castor		+2°50'±30'. Int: +3°10'±30'
King pin inclination		+9°18'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+2.0 to 4.0[3]
Camber		-55'±30' N/A

Torque wrench settings

		Delta HF 4x4/Integrale 1988 to 1989
Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	Centre: 20 + 130°[4]
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	142
Front hubs	Nm	294
Rear hubs	Nm	294
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

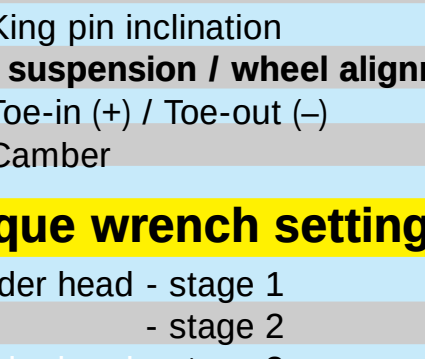
Capacities

		Delta HF 4x4/Integrale 1988 to 1989
Engine oil & filter	litres	5.6
Gearbox - 4-speed [5-speed]	litres	3.8
Automatic transmission - refill	litres	_
Final drive	litres	Rear: 1.1
Cooling system	litres	6.2
Fuel tank	litres	57

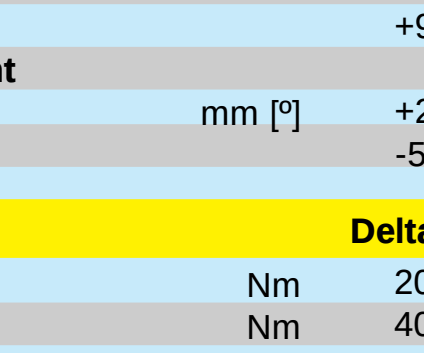
Notes and Illustrations

[1]**Integrale: Champion RN7YCC, gap: 0.85 to 0.95**
[2]**HF 4x4: -0.5±1.5**
[3]**HF 4x4: +3.0 to 5.0**
[4]**Others: 20 + 90°**

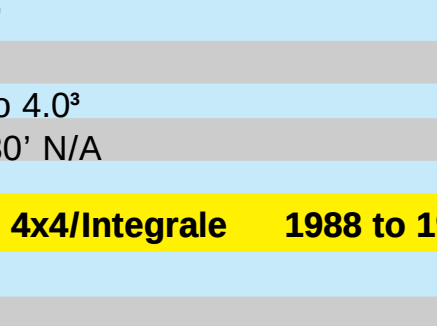
1: Idle speed 2: CO / Mixture



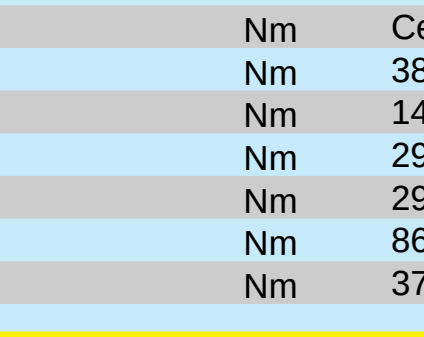
1995 cm³, 8V



1995 cm³, 8V



Weber IAW



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