

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system825i, Sterling1986 to 1988

Type		V6 OHC-24 valve
Capacity (cm ³) / number of cylinders		2494 / 6
Compression ratio / pressure	bar	9.6 / _
Oil pressure	bar	_
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		_
Thermostat opening temperature	°C	78
Radiator cap pressure	bar	1.04

Fuel system825i, Sterling1986 to 1988

Idle speed - manual [auto]	rpm	770±50 controlled by ECU
Fast idle speed - manual [auto]	rpm	Controlled by ECU
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.25
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		Honda
Type / ref		PGMFi
Main jet / needle		_
Injection pressure	bar	2.0
Pump pressure	bar	4.1
Octane rating	RON	97[RA] ¹

Ignition system825i, Sterling1986 to 1988

Type		Computerized
Ignition coil		Toyo Denso TC-04A
Primary resistance	ohms	_
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Toyo Denso
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13±2 BTDC @ 770 [AT: 11±2] ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	22 to 28 BTDC @ 1500 (V)
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Unipart/Champion
Type		XHM279 or 281 / RC9YC
Electrode gap	mm	1.0

Electrical system825i, Sterling1986 to 1988

Battery	V / CC / RC	12 / 520 / 120
Alternator voltage / full load current / engine rpm		14.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear825i, Sterling1986 to 1988

Brakes -		
Front (min. friction material thickness)	mm	8.2 with backing plate
Rear (min. friction material thickness)	mm	7.2 with backing plate

Tyres		
Saloon	Size	195/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±8']
Camber		+11'±30'
Castor		+1°54'±15'
King pin inclination		+8°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±4']
Camber		0±30'

Torque wrench settings825i, Sterling1986 to 1988

Cylinder head - stage 1	Nm	40
- stage 2	Nm	78
- stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	50
Main bearings	Nm	68 bolts 9 to 16 ²
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	290
Rear hubs	Nm	245
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

Capacities825i, Sterling1986 to 1988

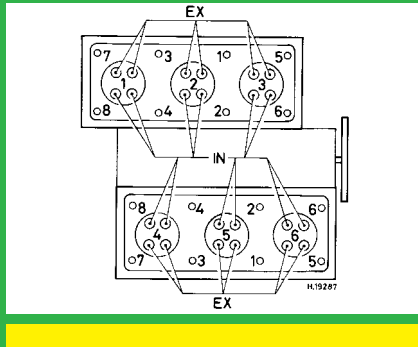
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	3.2
Final drive	litres	WT
Cooling system	litres	10.0
Fuel tank	litres	68

Notes and Illustrations

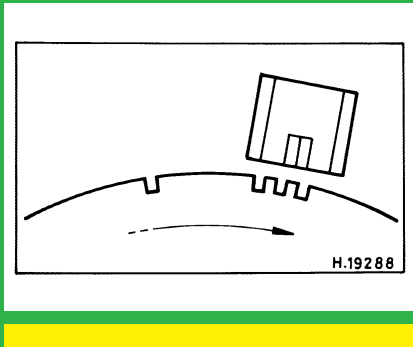
¹[E 95 RON]: 9±2 BTDC @ 770 [AT: 7±2]

²Main bolts only. Others: WSM

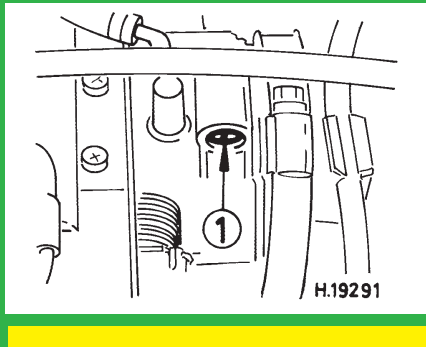
1: Idle speed2: CO / Mixture



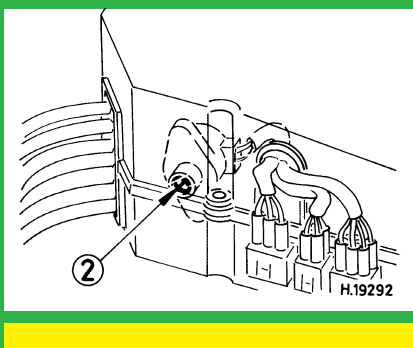
2494 cm³



2494 cm³



PGM-Fi, 2494 cm³



PGM-Fi, 2494 cm³