

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 827 CAT 1988 to 1990

Type	V6 OHC-24 valve	
Capacity (cm <sup>3</sup> ) / number of cylinders	2675 / 6	
Compression ratio / pressure	bar	9.0 / _
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 system 827 CAT 1988 to 1990

Idle speed - manual [auto]	rpm	720±50 controlled by ECU
Fast idle speed - manual [auto]	rpm	1000 to 2000 (ECU control)
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ 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	91[U]

## Ignition system 827 CAT 1988 to 1990

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	15±2 BTDC @ idle
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	_
	° 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 system 827 CAT 1988 to 1990

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 gear 827 CAT 1988 to 1990

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

<b>Tyres</b>		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9 <sup>1</sup>
- Estate / Van	bar	_

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[0±8']
Camber	+24'±1°12' N/A	
Castor	+2°36'±2° N/A	
King pin inclination	+8°±1°12' N/A	

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[+22'±12'] N/A
Camber	+13'±1°12' N/A	

## Torque wrench settings 827 CAT 1988 to 1990

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 <sup>2</sup>
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

## Capacities 827 CAT 1988 to 1990

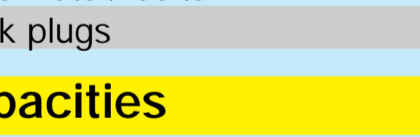
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	3.2
Final drive	litres	WT
Cooling system	litres	8.6
Fuel tank	litres	68

## Notes and Illustrations

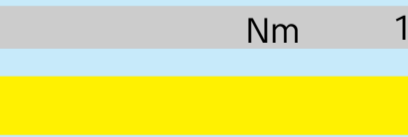
<sup>1</sup>205/60x15: 2.0 / 2.0. 205/55x16: 2.2 / 2.2

<sup>2</sup>Main bolts only. Others: WSM

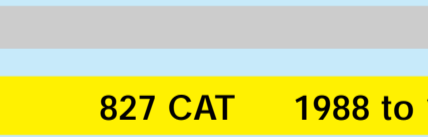
1: Idle speed 2: CO / Mixture



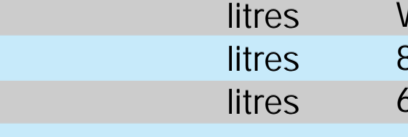
2675 cm<sup>3</sup>



2675 cm<sup>3</sup>



PGM-Fi, 2675 cm<sup>3</sup>



PGM-Fi, 2675 cm<sup>3</sup>