

Engine & Cooling

Fuel

Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemLegend 2.7 CAT1990 to 1991

Type		C27A1 SOHC
Capacity (cm³) / number of cylinders		2675 / 6
Compression ratio / pressure	bar	9.0 / ≥9.8
Oil pressure	bar	[4.9 to 5.7]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		PER
Thermostat opening temperature	°C	76 to 80
Radiator cap pressure	bar	0.88 to 1.20

Fuel systemLegend 2.7 CAT1990 to 1991

Idle speed - manual [auto]	rpm	680±50
Fast idle speed - manual [auto]	rpm	1100 to 1900
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
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		PGM-Fi
Main jet / needle		—
Injection pressure	bar	2.4 to 2.6
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemLegend 2.7 CAT1990 to 1991

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.32 to 0.39. 90 ►: 0.35to0.4
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	[equal gaps]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ idle
V = Vacuum NV = No Vacuum		V
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		NGK/Champion
Type		BCPR6EY-N11 / RC9YCC
Electrode gap	mm	1.00 to 1.10

Electrical systemLegend 2.7 CAT1990 to 1991

Battery	V / CC / RC	12 / 60, 65, 70Ah
Alternator voltage / full load current / engine rpm		13.5 / _ / 2500
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearLegend 2.7 CAT1990 to 1991

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.6. 1989 ►: 3.0

Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0¹
Camber		0±1°²
Castor		+1°40'±1°³
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±2.0⁴
Camber		0±1°⁵

Torque wrench settingsLegend 2.7 CAT1990 to 1991

Cylinder head - stage 1	Nm	40
- stage 2	Nm	78
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45
Main bearings	Nm	WSM⁶
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	250
Rear hubs	Nm	250
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

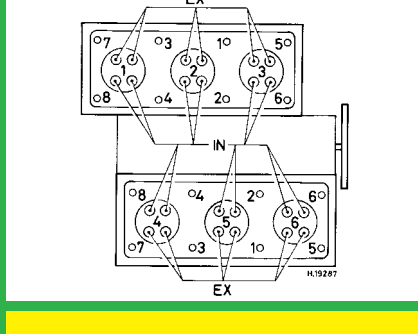
CapacitiesLegend 2.7 CAT1990 to 1991

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	3.2
Final drive	litres	WT
Cooling system	litres	8.8 [AT: 8.7]
Fuel tank	litres	68

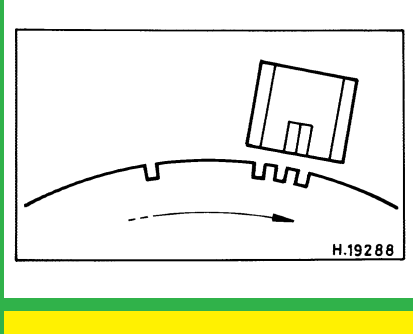
Notes and Illustrations

- ¹Saloon 89 ►: 0±2.0
- ²Saloon 89 ►: 0±30'
- ³Saloon 89 ►: +1°40'±30'
- ⁴Coupé: 0±2.0. Saloon & Coupé 89 ►: 0 to +4.0, both sides
- ⁵Saloon 89 ►: 0±30'
- ⁶89 ►: M9: 40. M11: 57

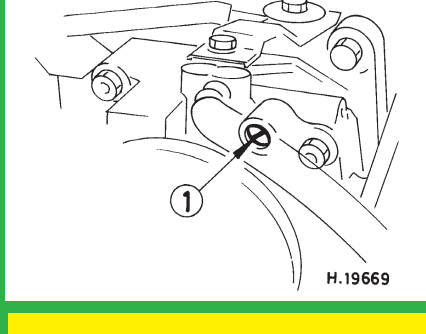
1: Idle speed2: CO / Mixture



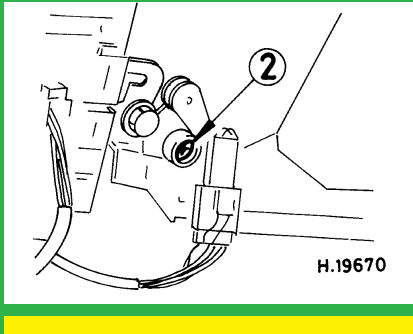
2675 cm³



2675 cm³



PGM-Fi, 2675 cm³



PGM-Fi, 2675 cm³