

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

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Engine and cooling system RX7 1986 to 1990

Type	RE13B Rotary	
Capacity (cm ³) / number of cylinders	2354 / 2	
Compression ratio / pressure	bar	9.4 / ≥5.9
Oil pressure	bar	[4.4 to 5.4]
Oil temperature	°C	—
Valve clearance - inlet	mm	—
Valve clearance - exhaust	mm	—
Firing order	1-2	
No 1 cylinder position	—	
Thermostat opening temperature	°C	82±1.5
Radiator cap pressure	bar	0.9±0.1

Fuel system RX7 1986 to 1990

Idle speed - manual [auto]	rpm	750±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1
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	Nippon Denso	
Type / ref	Electronic EGI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	4.4 to 5.9
Octane rating	RON	91[E 91 RON]

Ignition system RX7 1986 to 1990

Type	Electronic	
Ignition coil	—	
Primary resistance	ohms	0.2 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	—	
Points gap (air gap)	mm	[0.50 to 0.90]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	¹
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	27 @ 3700
Vacuum range check	mbar	133 to 533
Maximum vacuum advance	° Crankshaft	²
Spark plugs	NGK/Champion	
Type	BR9ET / RN2C	
Electrode gap	mm	1.0±0.05

Electrical system RX7 1986 to 1990

Battery	V / CC / RC	12 / 50 or 55Ah
Alternator voltage / full load current / engine rpm	14.4 to 15.0 / _ / 2500	
Starter motor current / voltage - cranking	A / V	90 / 11.0 (no load)
- locked	A / V	780 / 4.0 [980 / 4.0, AT]

Running gear RX7 1986 to 1990

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.0±3.0
Camber	+20'	
Castor	+4°40'	
King pin inclination	+13°45'	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±3.0
Camber	—	

Torque wrench settings RX7 1986 to 1990

Cylinder head - stage 1	Nm	—
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	—
Main bearings	Nm	—
Clutch cover	Nm	18 to 27
Flywheel [driveplate]	Nm	390 to 490 ³
Front hubs	Nm	WSM
Rear hubs	Nm	235 to 314
Wheel nuts / bolts	Nm	88 to 120
Spark plugs	Nm	12 to 18

Capacities RX7 1986 to 1990

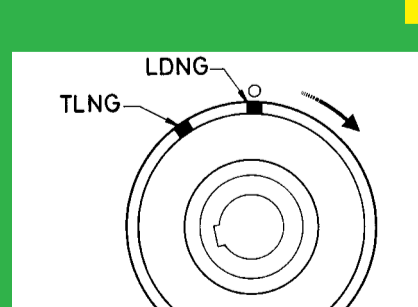
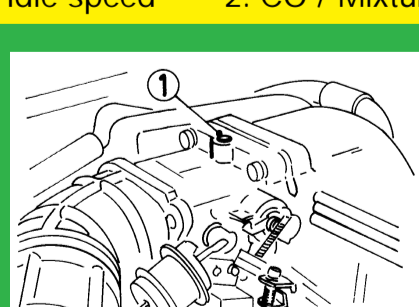
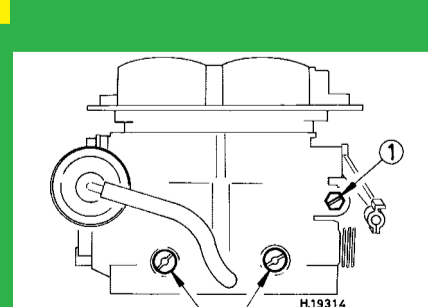
Engine oil & filter	litres	4.7
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	7.5
Final drive	litres	1.3
Cooling system	litres	7.3
Fuel tank	litres	63

Notes and Illustrations

¹Leading: 5±1 ATDC @ idle. Trailing: 20±2 ATDC @ idle

²Leading: 15. Trailing: 30

³[81 to 93]

1: Idle speed 2: CO / Mixture

RX7

Nippon Denso EGI

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