

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 RX7 Turbo 1992 to 1996

Type	RE13B Rotary 2x Turbo	
Capacity (cm ³) / number of cylinders	2616 / 2	
Compression ratio / pressure	bar	9.0 / 7.0
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	80.5 to 83.5
Radiator cap pressure	bar	1.2 to 1.5

Fuel system RX7 Turbo 1992 to 1996

Idle speed - manual [auto]	rpm	700 to 750
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO ₂ @ idle speed [3000 rpm] - see page VI	%	–
O ₂ @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection	Bosch	
Type / ref	Electronic MPI	
Main jet / needle	–	
Injection pressure	bar	–
Pump pressure	bar	5.0 to 7.5
Octane rating	RON	95[U]

Ignition system RX7 Turbo 1992 to 1996

Type	Electronic	
Ignition coil	–	
Primary resistance	ohms	≤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	Computer control
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	–
Spark plugs	NGK/Champion	
Type	BUR9EQP / RN2C	
Electrode gap	mm	1.1 to 1.7

Electrical system RX7 Turbo 1992 to 1996

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm	14.1 to 14.7 / 100 / 3000	
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 Turbo 1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	225/50x16
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	–
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±3.0
Camber		+6'±45'
Castor		+5°9'±1°
King pin inclination		+13°55'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±3.0
Camber		-1°13'±45'

Torque wrench settings RX7 Turbo 1992 to 1996

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
Front hubs	Nm	WSM
Rear hubs	Nm	235 to 314
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	12 to 18

Capacities RX7 Turbo 1992 to 1996

Engine oil & filter	litres	5.8
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	–
Final drive	litres	1.4
Cooling system	litres	8.7
Fuel tank	litres	76

Notes and Illustrations

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