

Engine & Cooling

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Automotive Technical
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Engine and cooling systemRX7 Turbo1992 to 1996

Type		RE13B Rotary 2x Turbo
Capacity (cm³) / 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 systemRX7 Turbo1992 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
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ 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 systemRX7 Turbo1992 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 systemRX7 Turbo1992 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 gearRX7 Turbo1992 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 settingsRX7 Turbo1992 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

CapacitiesRX7 Turbo1992 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