

Engine & Cooling

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Automotive Technical
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Engine and cooling system

RX7 Turbo CAT

1989 to 1993

Type		RE13B Rotary
Capacity (cm ³) / number of cylinders		2354 / 2
Compression ratio / pressure	bar	9.0 / _
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	0.73 to 1.03

Fuel system

RX7 Turbo CAT

1989 to 1993

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
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Nippon Denso
Type / ref		Electronic MPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	4.4 to 5.9
Octane rating	RON	95[U]

Ignition system

RX7 Turbo CAT

1989 to 1993

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		BUR9EQ / RN2C
Electrode gap	mm	1.1 to 1.7

Electrical system

RX7 Turbo CAT

1989 to 1993

Battery	V / CC / RC	12 / 50Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 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 CAT

1989 to 1993

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	205/60x15: 205/55x16
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'±30'
Castor		+4°40'±45'
King pin inclination		+13°45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±3.0
Camber		+44'±30'

Torque wrench settings

RX7 Turbo CAT

1989 to 1993

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

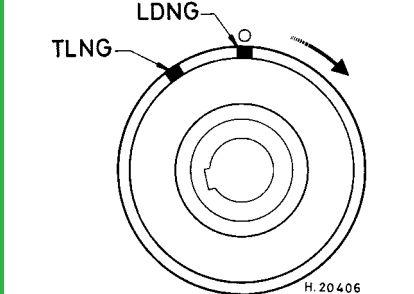
RX7 Turbo CAT

1989 to 1993

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	72

Notes and Illustrations

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



RX7