

Engine & Cooling

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Engine and cooling system

300 ZX Turbo CAT (Z32)

1990 to 1995

Type		VG30DETT. DOHC 2x turbo 207kW
Capacity (cm³) / number of cylinders		2960 / 6
Compression ratio / pressure	bar	8.5 / ≥9.8
Oil pressure	bar	[3.5 to 4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-3-4-5-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel system

300 ZX Turbo CAT (Z32)

1990 to 1995

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 8.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		ECCS (EFi) MPI + Turbo
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

300 ZX Turbo CAT (Z32)

1990 to 1995

Type		Direct electronic
Ignition coil		6x Hitachi, Hanshin
Primary resistance	ohms	0.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Hitachi/Mitsubishi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ idle
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		PFRB-11C / RC7YCC
Electrode gap	mm	1.00 to 1.10 N/A

Electrical system

300 ZX Turbo CAT (Z32)

1990 to 1995

Battery	V / CC / RC	12 / 195 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 90 / 2500
Starter motor current / voltage - cranking	A / V	70 / 11.0
- locked	A / V	—

Running gear

300 ZX Turbo CAT (Z32)

1990 to 1995

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

Tyres		
Saloon	Size	225/50x16: 245/45x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	Refer to decal on car
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +2.0³
Camber		-1°35' to -5'⁴
Castor		+9° to 10°30'⁵
King pin inclination		+12°10' to 13°40' N/A⁶

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +4.0
Camber		-1°35' to -35'

Torque wrench settings

300 ZX Turbo CAT (Z32)

1990 to 1995

Cylinder head - stage 1	Nm	39¹
- stage 2	Nm	123, then loosen bolts
Cylinder head - stage 3	Nm	34 to 44
- stage 4	Nm	+ 65 to 75º²
Big-end bearings	Nm	15 + 60 to 65°
Main bearings	Nm	90 to 100
Clutch cover	Nm	34 to 44
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	206 to 284
Rear hubs	Nm	206 to 275
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities

300 ZX Turbo CAT (Z32)

1990 to 1995

Engine oil & filter	litres	3.4. Cooler: 3.7
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	8.7
Final drive	litres	2.1
Cooling system	litres	10.0
Fuel tank	litres	72

Notes and Illustrations

¹Bolts A: 10 to 12, no further retightening

²Bolts B: + 60 to 70° only

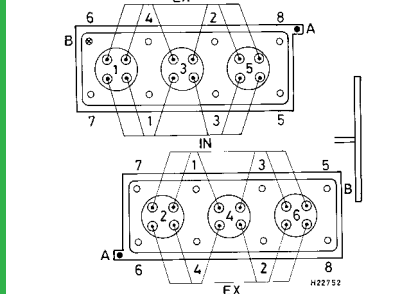
³94 ►: 1.0 to 3.0

⁴94 ►: -1°30' to 0

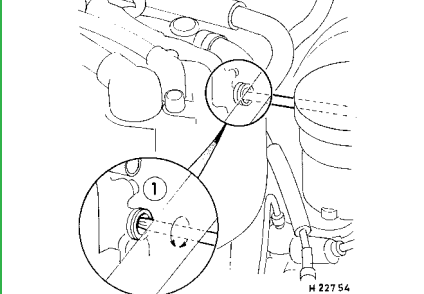
⁵94 ►: 8°55' to 10°25'

⁶94 ►: 12°05' to 13°35'

1: Idle speed 2: CO / Mixture



2960 cm³, 24V



ECCS