

Automotive Technical DATA BOOK

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MENU HELP

HELP

Engine and cooling system

Silvia Turbo ZX (S12) 1984 to 1990

Type		CA18ET SOHC
Capacity (cm ³) / number of cylinders		1809 / 4
Compression ratio / pressure	bar	8.0 / ≥8.8
Oil pressure	bar	[3.2 to 5.1]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.30 H
— exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.90

Fuel system

Silvia Turbo ZX (S12)	1984 to 1990
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Idle speed - manual [auto]	rpm	750±100 [850±100]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤2.0
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		Nissan
Type / ref		ECCS (EFI) + Turbo
Main jet / needle		
Injection pressure	bar	2.6
Pump pressure	bar	2.9 to 4.4
Octane rating	RON	97/L

Ignition system

Silvia Turbo ZX (S12)	1984 to 1990
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Type		Computerized
Ignition coil		Hitachi CM1T-201
Primary resistance	ohms	0.8 to 1.0
Ballast resistor	ohms	—
Voltage - Trmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	Computer control
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static]	° Crankshaft @ rpm	15± BTDC @ idle
V = Vacuum NV = No Vacuum		NV
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		BCPR6ES-11 / RC7YC
Electrode gap	mm	1.00 to 1.10

Electrical system

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Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / _ / 2500
Starter motor current / voltage - cranking	A / V	100 / 11 (no load)
- locked	A / V	

Running gear

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Brakes		mm	inches
Rear (min. friction material thickness)		mm	2.0
Rear (min. friction material thickness)		mm	2.0
Tyres		mm	inches
Saloon		Size	195/60x15
Estate / Van		Size	195/60x15
Pressure - front / rear - Saloon		bar	1.9 / 1.9
- Estate / Van		bar	-
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (-)		mm [°]	0 to +2.0
Camber			-25' to +15'
Castor			+245' to 4°15'
King pin inclination			+11°40' to 13°10'
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (-)		mm [°]	-2.0 to 0
Camber			-1°15' to +15'

Torque wrench settings

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Cylinder head - stage 1	Nm	29
- stage 2	Nm	78, then loosen bolts
Cylinder head - stage 3	Nm	29
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	32 to 36
Main bearings	Nm	45 to 54
Clutch cover	Nm	18 to 22
Flywheel (driveplate)	Nm	98 to 108
Front hubs	Nm	WSM
Rear hubs	Nm	294 to 392
Wheel nuts / bolts	Nm	75 to 98
Spark plugs	Nm	20 to 29

Capacities

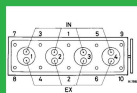
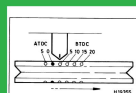
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Component	Unit	Value
Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	7.0
Final drive	litres	1.3
Cooling system	litres	8.6
Fuel tank	litres	53

Notes and Illustrations



1: Idle speed 2: CO / Mixture

1809 cm⁻¹1809 cm⁻¹

ECCS



ECGS