

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemSwift 1.3i & Cabrio CAT1992 to 1996

Type		G13B DOHC 16V 74kW
Capacity (cm ³) / number of cylinders		1298 / 4
Compression ratio / pressure	bar	10.0 / 14.5
Oil pressure	bar	[3.5 to 4.3]
Oil temperature	°C	85
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82 or 88
Radiator cap pressure	bar	0.90

Fuel systemSwift 1.3i & Cabrio CAT1992 to 1996

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		Suzuki
Type / ref		EPi (Electronic Petrol Inj.)
Main jet / needle		—
Injection pressure	bar	1.8 to 2.1
Pump pressure	bar	2.5 to 2.6
Octane rating	RON	95[U]

Ignition systemSwift 1.3i & Cabrio CAT1992 to 1996

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Nippon Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 850±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Electronic control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Electronic control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemSwift 1.3i & Cabrio CAT1992 to 1996

Battery	V / CC / RC	12 / 190 / 65
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / 50 / 3000
Starter motor current / voltage - cranking	A / V	230 to 300 / 7.7 to 9.5
- locked	A / V	310 to 780 / 2.5 to 7.7

Running gearSwift 1.3i & Cabrio CAT1992 to 1996

Brakes -		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	6.0 with backing

Tyres		
Saloon	Size	175/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to +2.0
Camber		+0±1°
Castor		+3°±2°
King pin inclination		+12°55'±3°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		—

Torque wrench settingsSwift 1.3i & Cabrio CAT1992 to 1996

Cylinder head - stage 1	Nm	65 to 70
- stage 2	Nm	—
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	33 to 37
Main bearings	Nm	50 to 57
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	68 to 72
Front hubs	Nm	150 to 200
Rear hubs	Nm	150 to 200
Wheel nuts / bolts	Nm	50 to 70
Spark plugs	Nm	25 to 30

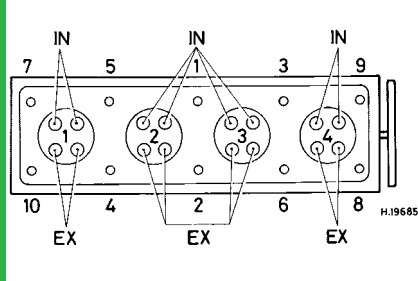
CapacitiesSwift 1.3i & Cabrio CAT1992 to 1996

Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	40

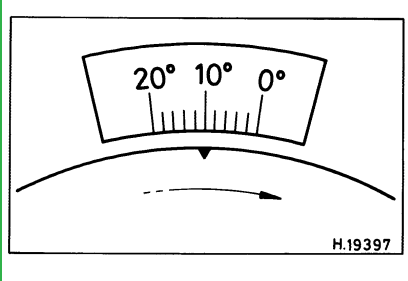
Notes and Illustrations



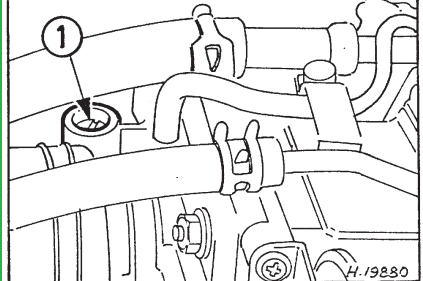
1: Idle speed 2: CO / Mixture



1298 cm³, 16V



1298 cm³, 16V



Suzuki EPi