

Engine & Cooling

Fuel

Ignition

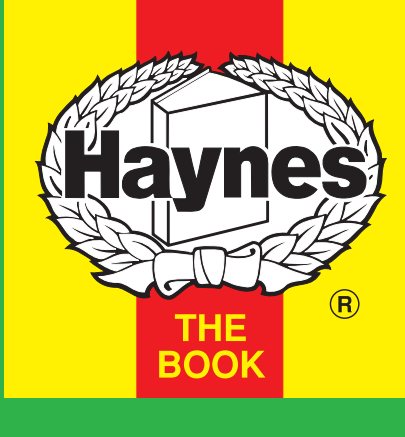
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemSwift SF 416i & 4x4 CAT1989 to 1992

Type		G16B SOHC 16V
Capacity (cm ³) / number of cylinders		1590 / 4
Compression ratio / pressure	bar	8.9 / 10.8
Oil pressure	bar	[3.5 to 4.3]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.08 to 0.12
- exhaust	mm	0.08 to 0.12
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82 or 88
Radiator cap pressure	bar	0.88

Fuel systemSwift SF 416i & 4x4 CAT1989 to 1992

Idle speed - manual [auto]	rpm	800±50 [900±50]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
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		Suzuki
Type / ref		SPI with ECM control
Main jet / needle		—
Injection pressure	bar	1.6 to 2.1
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemSwift SF 416i & 4x4 CAT1989 to 1992

Type		Electronic ¹
Ignition coil		—
Primary resistance	ohms	1.08 to 1.32
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Nippon Denso
Points gap (air gap)	mm	0.20
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
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		BKR6E / RC9YCC
Electrode gap	mm	0.70 to 0.80

Electrical systemSwift SF 416i & 4x4 CAT1989 to 1992

Battery	V / CC / RC	12 / 28 or 38Ah
Alternator voltage / full load current / engine rpm		14.2 to 14.8 / _ / 2500
Starter motor current / voltage - cranking	A / V	230 to 270 / 8.7 to 9.5
- locked	A / V	310 to 600 / 2.5 to 7.7

Running gearSwift SF 416i & 4x4 CAT1989 to 1992

Brakes -		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	2.8

Tyres		
Saloon	Size	165/65x14
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 [°]	-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 [°]	—
Camber		—

Torque wrench settingsSwift SF 416i & 4x4 CAT1989 to 1992

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	57 to 65
Front hubs	Nm	150 to 200
Rear hubs	Nm	150 to 200
Wheel nuts / bolts	Nm	50 to 70
Spark plugs	Nm	20 to 30

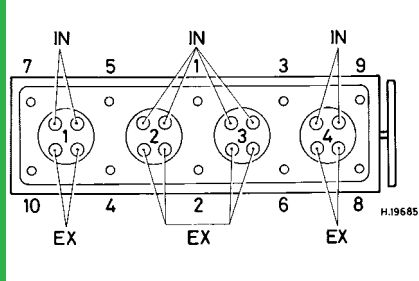
CapacitiesSwift SF 416i & 4x4 CAT1989 to 1992

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 4.5
Automatic transmission - refill	litres	2.0
Final drive	litres	4x4: 1.1
Cooling system	litres	4.9
Fuel tank	litres	40

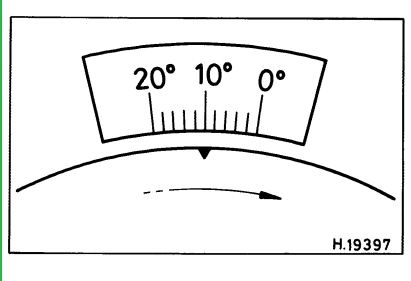
Notes and Illustrations

¹ESA (electronic spark advance)

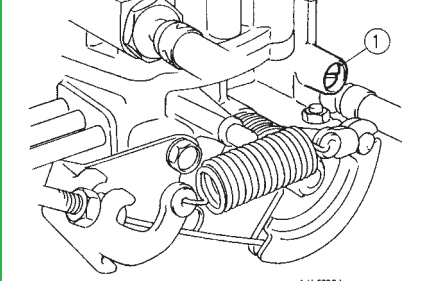
1: Idle speed 2: CO / Mixture



1590 cm³, 16V



1590 cm³



Suzuki SPi