

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system Swift SF 416 1989 to 1992

Type	G16B SOHC 16V	
Capacity (cm <sup>3</sup> ) / 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 system Swift SF 416 1989 to 1992

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	3800 to 4800
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	-
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection	Aisan	
Type / ref	VV (variable venturi)	
Main jet / needle	-	
Injection pressure	bar	-
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	95[E 95 RON]

## Ignition system Swift SF 416 1989 to 1992

Type	Electronic	
Ignition coil	-	
Primary resistance	ohms	1.33 to 1.63
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 @ 800±50
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	12±1 BTDC @ 800±50
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Vacuum range check	mbar	-
Maximum vacuum advance	° Crankshaft	-
Spark plugs	NGK/Champion	
Type	BKR6E / RC9YCC	
Electrode gap	mm	0.70 to 0.80

## Electrical system Swift SF 416 1989 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 gear Swift SF 416 1989 to 1992

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

<b>Tyres</b>		
Saloon	Size	165/65x14
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	Refer to decal on car
- Estate / Van	bar	-

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

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-
Camber	-	

## Torque wrench settings Swift SF 416 1989 to 1992

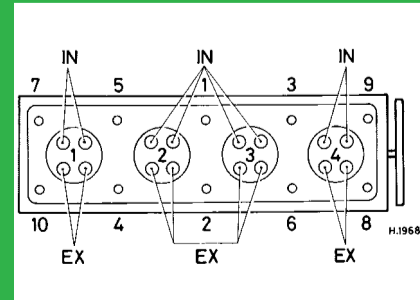
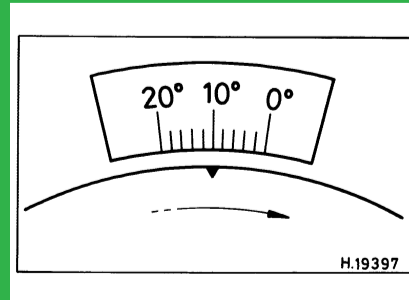
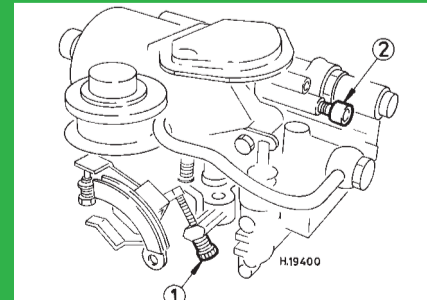
Cylinder head - stage 1	Nm	65 to 70
- stage 2	Nm	-
- stage 3	Nm	-
- stage 4	Nm	-
Big-end bearings	Nm	33 to 37
Main bearings	Nm	50 to 57
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	57 to 65
Front hubs	Nm	150 to 200
Rear hubs	Nm	150 to 200
Wheel nuts / bolts	Nm	50 to 70
Spark plugs	Nm	20 to 30

## Capacities Swift SF 416 1989 to 1992

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

## Notes and Illustrations

1: Idle speed 2: CO / Mixture

1590 cm<sup>3</sup>1590 cm<sup>3</sup>

Aisan VV