

Engine & Cooling

Fuel

Ignition

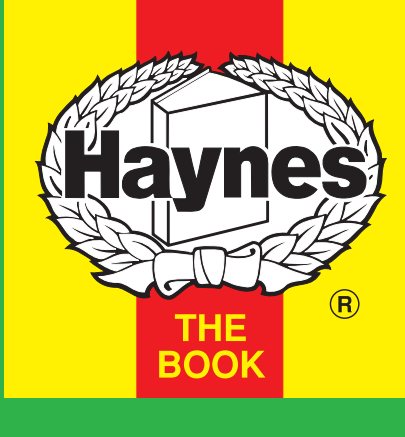
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemSwift SF 4161989 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 4161989 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
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ 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 systemSwift SF 4161989 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 systemSwift SF 4161989 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 4161989 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 4161989 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

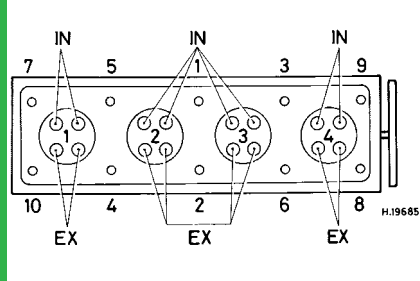
CapacitiesSwift SF 4161989 to 1992

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

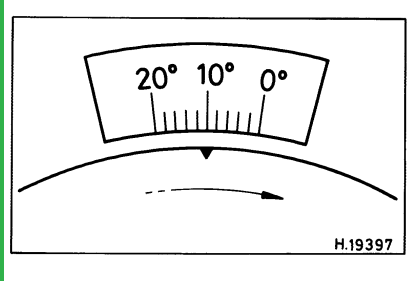
Notes and Illustrations



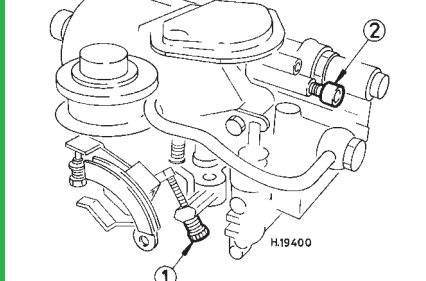
1: Idle speed 2: CO / Mixture



1590 cm³



1590 cm³



Aisan VV