

Engine & Cooling

Fuel

Ignition

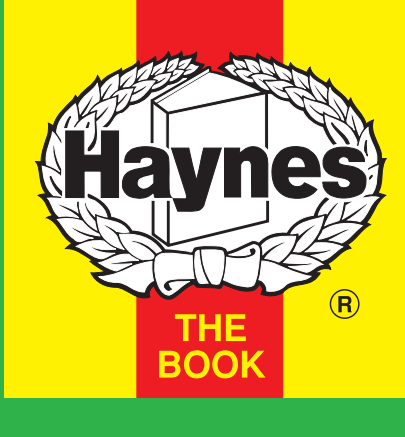
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemSwift SF 4131989 to 1992

Type	G13BA SOHC	
Capacity (cm ³) / number of cylinders	1298 / 4	
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.0 to 4.1]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.13 to 0.18
- exhaust	mm	0.16 to 0.20
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 SF 4131989 to 1992

Idle speed - manual [auto]	rpm	700±50 [850±50]
Fast idle speed - manual [auto]	rpm	1200 to 1800
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	2V downdraught	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	95[E 95 RON]

Ignition systemSwift SF 4131989 to 1992

Type	Electronic	
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 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ idle
V = Vacuum NV = No Vacuum	_	
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	BPR6ES / RN9YC	
Electrode gap	mm	0.70 to 0.80

Electrical systemSwift SF 4131989 to 1992

Battery	V / CC / RC	12 / 190 / 65
Alternator voltage / full load current / engine rpm	14.2 to 14.8 / _ / 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 SF 4131989 to 1992

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- 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 [°]	+2.0±2.0
Camber	_	

Torque wrench settingsSwift SF 4131989 to 1992

Cylinder head - stage 1	Nm	70 to 75
- 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	80 to 120
Wheel nuts / bolts	Nm	50 to 70
Spark plugs	Nm	25 to 30

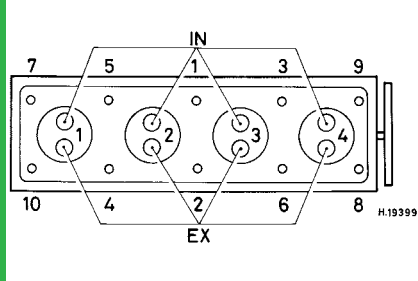
CapacitiesSwift SF 4131989 to 1992

Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	40

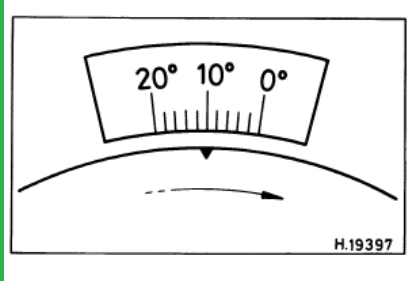
Notes and Illustrations



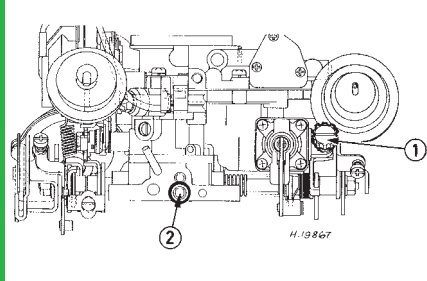
1: Idle speed 2: CO / Mixture



1298 cm³, 8V



1298 cm³



Aisan 2V