SUZUKI

Swift SA 413

1985 to 1989

Haynes THE BOOK ®

Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU HELP

Engine and cooling system

Swift SA 413 1985 to 1989

Type		OHC
Capacity (cm³) / number of cylinders		1324 / 4
Compression ratio / pressure	bar	8.8 / ≥10.8
Oil pressure	bar	[3.0 to 4.1]
Oil temperature	ºC	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	ºC	82 or 88
Radiator cap pressure	bar	0.90

Fuel system

Swift SA 413 1985 to 1989

Idle speed - manual [auto]	rpm	VV: 800, 2V: 700 [850] ±50
Fast idle speed - manual [auto]	rpm	VV: 3800 to 4800[1]
CO @ idle speed [3000 rpm] - see page VI	%	1.5±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 or 2V
Main jet / needle		2V: 91, 119
Injection pressure	bar	_
Pump pressure	bar	0.20 to 0.30
Octane rating	RON	95[E 95 RON][2]

Ignition system

Swift SA 413 1985 to 1989

Type		Electronic
Ignition coil		_
Primary resistance	ohms	1.06 to 1.43
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Nippon Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	º Crankshaft @ rpm	8 or 4 BTDC @ idle[2]
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	0 @ 1000 to 1500
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	20 to 28 @ 4200
Vacuum range check	mbar	127 to 317
Maximum vacuum advance	º Crankshaft	18 to 22
Spark plugs		NGK/Champion
Type		BPR6ES / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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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	270 / 9.5 or 300 / 7.7 (1.2kW)
- locked	A / V	600 / 7.7 or 780 / 4 (1.2kW)

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	8.0 with backing
Rear (min. friction material thickness)	mm	2.8
Tyres		
Saloon	Size	145x12: 165/70x12
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	0 to +4.0[3]
Camber		+1°±1° [86 ▶: +15'±1°]
Castor		+3°10'±2°
King pin inclination		+12°50'±3°
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	_
Camber		_

Torque wrench settings

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Cylinder head - stage 1	Nm	63 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 270
Rear hubs	Nm	80 to 120
Wheel nuts / bolts	Nm	40 to 70
Spark plugs	Nm	20 to 30

Capacities

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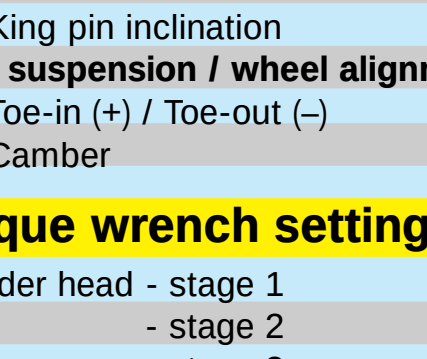
Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	1.5
Final drive	litres	WT
Cooling system	litres	4.7
Fuel tank	litres	31

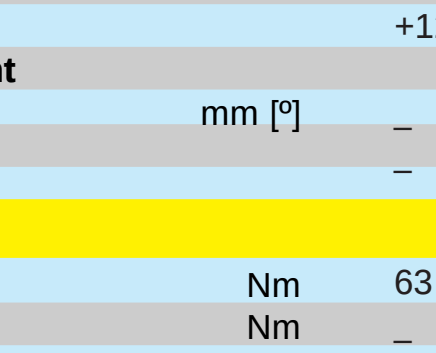
Notes and Illustrations

[1]**2V: 1500 to 2500**
[2]**8° [86 ▶: 6°] for 95 RON+, 4° for other fuel**
[3]**86 ▶: -2.0 to +2.0**

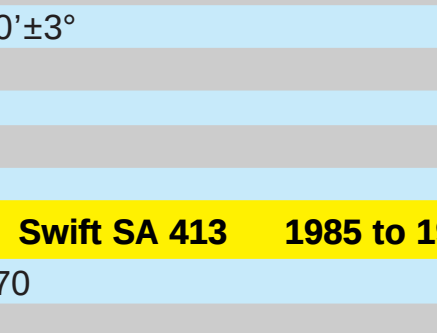
1: Idle speed 2: CO / Mixture



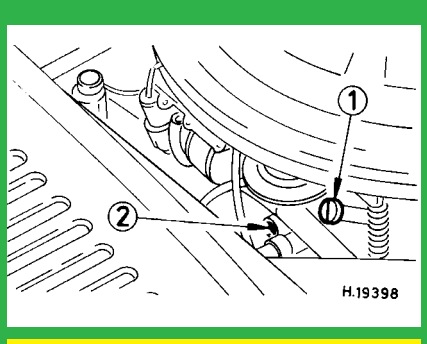
1324 cm³



1324 cm³



Aisan VV



Aisan 2V