

Engine & Cooling

Fuel

Ignition

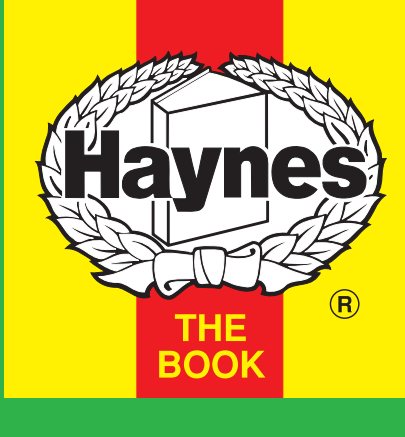
Electrical

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemSwift SF 413 GTi & CAT1988 to 1992

|                                      |     |                    |
|--------------------------------------|-----|--------------------|
| Type                                 |     | G13B DOHC 16V 75kW |
| Capacity (cm³) / number of cylinders |     | 1298 / 4           |
| Compression ratio / pressure         | bar | 10.0 / ≥10.8       |
| Oil pressure                         | bar | [3.5 to 4.3]       |
| Oil temperature                      | °C  | 85                 |
| Valve clearance - inlet              | mm  | 0: Hyd.            |
| - exhaust                            | mm  | 0: Hyd.            |
| 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 413 GTi & CAT1988 to 1992

|                                           |     |                              |
|-------------------------------------------|-----|------------------------------|
| Idle speed - manual [auto]                | rpm | 850±50                       |
| Fast idle speed - manual [auto]           | rpm | —                            |
| 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              |     | Suzuki                       |
| Type / ref                                |     | EPi (Electronic Petrol Inj.) |
| Main jet / needle                         |     | —                            |
| Injection pressure                        | bar | 1.8 to 2.1                   |
| Pump pressure                             | bar | 2.5 to 2.6                   |
| Octane rating                             | RON | 95[E 95 RON] <sup>1</sup>    |

Ignition systemSwift SF 413 GTi & CAT1988 to 1992

|                                 |                    |                    |
|---------------------------------|--------------------|--------------------|
| Type                            |                    | Computerized       |
| Ignition coil                   |                    | —                  |
| Primary resistance              | ohms               | 0.72 to 0.88       |
| Ballast resistor                | ohms               | —                  |
| Voltage - Tmnl 15(+) to earth   | V                  | —                  |
| Distributor                     |                    | Nippon Denso       |
| Points gap (air gap)            | mm                 | [0.20 to 0.30]     |
| Dwell angle                     | ° (%)              | —                  |
| Condenser capacity              | µF                 | —                  |
| Rotation                        |                    | Clockwise          |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 6±1 BTDC @ 850±50  |
| V = Vacuum NV = No Vacuum       |                    | —                  |
| 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                            |                    | BPR6ES / RN9YC     |
| Electrode gap                   | mm                 | 0.70 to 0.80       |

Electrical systemSwift SF 413 GTi & CAT1988 to 1992

|                                                     |             |                         |
|-----------------------------------------------------|-------------|-------------------------|
| Battery                                             | V / CC / RC | 12 / 190 / 65           |
| Alternator voltage / full load current / engine rpm |             | 14.2 to 15.0 / _ / 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 413 GTi & CAT1988 to 1992

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

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 175/60x14 |
| Estate / Van                     | Size | —         |
| Pressure - front / rear - Saloon | bar  | 1.8 / 1.8 |
| - 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 413 GTi & CAT1988 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 | 25 to 30   |

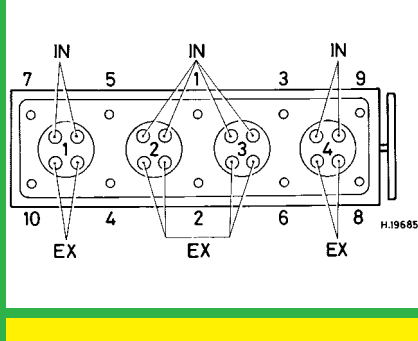
CapacitiesSwift SF 413 GTi & CAT1988 to 1992

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

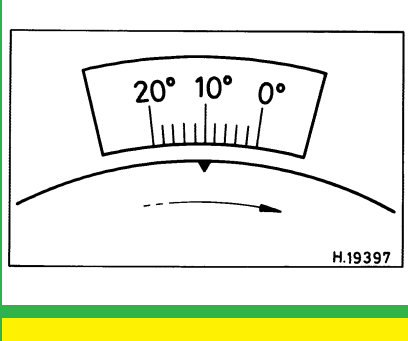
Notes and Illustrations

<sup>1</sup>CAT: 95 [U]

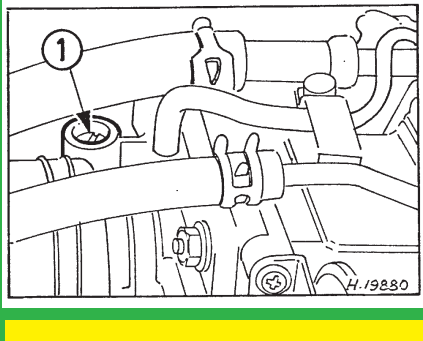
1: Idle speed      2: CO / Mixture



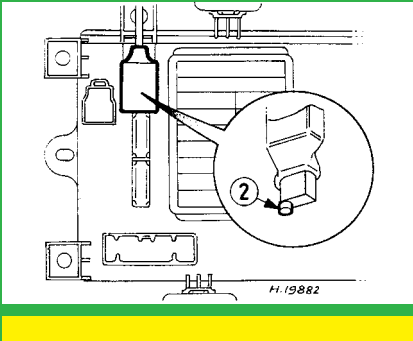
1298 cm³, 16V



1298 cm³



EPi



EPi