

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemSuper Carry1986 to 1995

Type	SOHC 8V 33kW	
Capacity (cm ³) / number of cylinders	970 / 4	
Compression ratio / pressure	bar	8.8 / ≥11.7
Oil pressure	bar	[3.0 to 4.4]
Oil temperature	°C	85
Valve clearance - inlet	mm	0.13 to 0.18
- exhaust	mm	0.13 to 0.18
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 systemSuper Carry1986 to 1995

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Mikuni	
Type / ref	1V Sidedraught	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	0.25 to 0.35
Octane rating	RON	91[E 91 RON]

Ignition systemSuper Carry1986 to 1995

Type	Contact breaker - CIS	
Ignition coil	Nippon Denso	
Primary resistance	ohms	2.1
Ballast resistor	ohms	1.3
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Nippon Denso	
Points gap (air gap)	mm	0.40 to 0.50
Dwell angle	° (%)	52±3
Condenser capacity	µF	0.25
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 900
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 700 to 1250
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	17 to 20 @ 5500
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs	NGK/Champion	
Type	BPR5ES / RN9YC	
Electrode gap	mm	0.70 to 0.80

Electrical systemSuper Carry1986 to 1995

Battery	V / CC / RC	12 / 28 or 40Ah
Alternator voltage / full load current / engine rpm	14.2 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking	A / V	230 to 270 / 9.5
- locked	A / V	450 to 600 / 7.7 to 8.5

Running gearSuper Carry1986 to 1995

Brakes -		
Front (min. friction material thickness)	mm	6.5 with backing
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	—
Estate / Van	Size	155x12
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.7 / 2.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 5.0
Camber	+1°±45'	
Castor	+5°±1°	
King pin inclination	+11°25'±2°	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber	—	

Torque wrench settingsSuper Carry1986 to 1995

Cylinder head - stage 1	Nm	55 to 60
- stage 2	Nm	—
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	28 to 32
Main bearings	Nm	43 to 48
Clutch cover	Nm	18 to 28
Flywheel [driveplate]	Nm	40 to 45
Front hubs	Nm	150 to 270
Rear hubs	Nm	80 to 120
Wheel nuts / bolts	Nm	50 to 80
Spark plugs	Nm	20 to 30

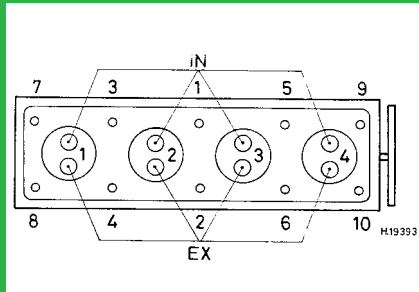
CapacitiesSuper Carry1986 to 1995

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	1.3
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	4.0
Fuel tank	litres	36. Pick-up: 37

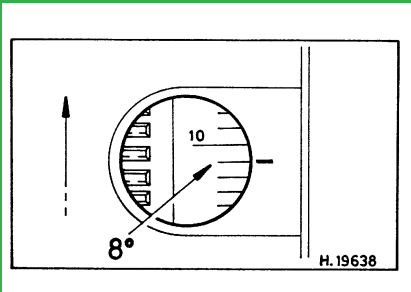
Notes and Illustrations



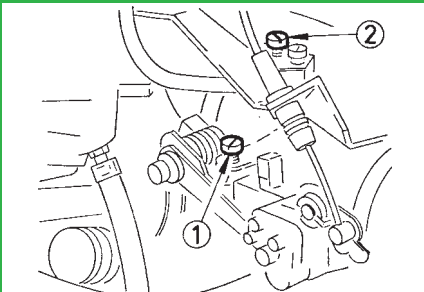
1: Idle speed 2: CO / Mixture



970 cm³



970 cm³



Mikuni 1V