

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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 systemMicra 1.0, 5 spd & AT(K10)1983 to 1989

Type		MA10S SOHC
Capacity (cm ³) / number of cylinders		988 / 4
Compression ratio / pressure	bar	10.3 / 11.3 to 13.2
Oil pressure	bar	2.0 [3.9]
Oil temperature	°C	—
Valve clearance - inlet	mm	0.25 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.90

Fuel systemMicra 1.0, 5 spd & AT(K10)1983 to 1989

Idle speed - manual [auto]	rpm	800±50 [900±50]. A/C: 850±50
Fast idle speed - manual [auto]	rpm	1700 to 2100 [1800 to 2200]
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		Hitachi
Type / ref		DCZ306-81/-91 [-82/-92 AT]
Main jet / needle		94, 130
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	97[RA] ¹

Ignition systemMicra 1.0, 5 spd & AT(K10)1983 to 1989

Type		Contact breaker - CIS
Ignition coil		Mitsubishi. Hitachi
Primary resistance	ohms	1.3 to 1.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi/Mitsubishi
Points gap (air gap)	mm	0.45 to 0.55
Dwell angle	° (%)	49 to 55
Condenser capacity	µF	0.20 to 0.24
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12±5 BTDC @ 800 ¹
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1000 [0 @ 1100, AT]
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	15 @ 3000
Vacuum range check	mbar	93 to 347 ²
Maximum vacuum advance	° Crankshaft	15 ²
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemMicra 1.0, 5 spd & AT(K10)1983 to 1989

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / _ / 2500
Starter motor current / voltage - cranking	A / V	55 [AT: 65] / 11.5 (no load)
- locked	A / V	—

Running gearMicra 1.0, 5 spd & AT(K10)1983 to 1989

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	145x12: 155x12
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 4.0
Camber		-25' to +1°5'
Castor		+1°30' to 3°
King pin inclination		+12°25' to 13°55'

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

Torque wrench settingsMicra 1.0, 5 spd & AT(K10)1983 to 1989

Cylinder head - stage 1	Nm	34 to 39
- stage 2	Nm	59 to 64
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	29 to 34
Main bearings	Nm	46 to 52 in stages
Clutch cover	Nm	16 to 21
Flywheel [driveplate]	Nm	59 to 69 ³
Front hubs	Nm	78 to 157
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	25 to 29

CapacitiesMicra 1.0, 5 spd & AT(K10)1983 to 1989

Engine oil & filter	litres	2.8
Gearbox - 4-speed [5-speed]	litres	2.6
Automatic transmission - refill	litres	6.0
Final drive	litres	WT
Cooling system	litres	3.9
Fuel tank	litres	40

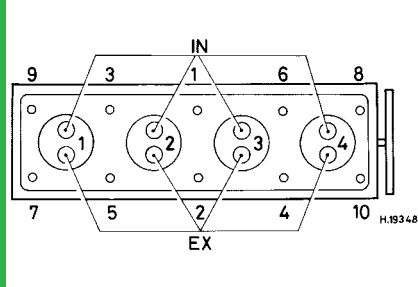
Notes and Illustrations

¹[E 95 RON]: timing: 11±5 BTDC @ 800

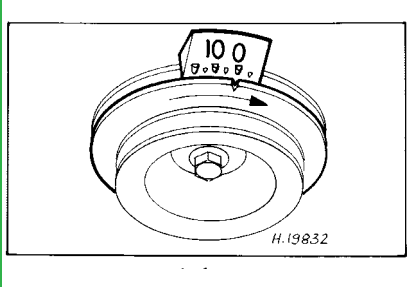
²AT: 200 to 400 @ 10°

³[70 to 80]

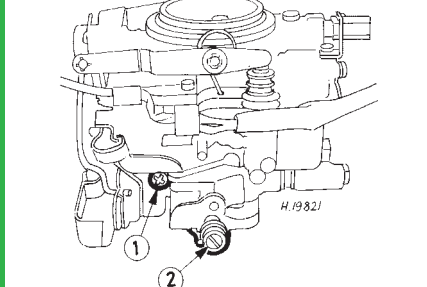
1: Idle speed 2: CO / Mixture



988 cm³



988 cm³



Hitachi DCZ