



HELP

1989 to 1990

type	MA10S SOHC 40kW	
Capacity (cm ³) / number of cylinders	988 / 4	
Compression ratio / pressure	bar	10.3 / ≥11.3 to 13.2
Oil pressure	bar	[2.9]
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	88
Radiator cap pressure	bar	0.90

1989 to 1990

Idle speed - manual [auto]	rpm	800±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		DCZ306-91A [AT: -92A]
Main jet / needle		94, 130
Injection pressure	bar	–
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	97[IRAI] ¹

1989 to 1990

Type		Electronic
Ignition coil		Mitsubishi. Hitachi
Primary resistance	ohms	1.0 to 1.2
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi/Mitsubishi
Points gap (air gap)	mm	[0.30 to 0.45]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12±5 BTDC @ idle ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	12±5 BTDC @ idle ²
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 900 to 1300
	° Crankshaft @ rpm	10 @ 2200 to 2500
	° Crankshaft @ rpm	13 to 17 @ 3000
Vacuum range check	mbar	80 to 313 ³
Maximum vacuum advance	° Crankshaft	16. AT: 11
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

1989 to 1990

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)
	A / V	

1989 to 1990

Brakes -

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

Tyres

Saloon	Size	155/70x13: 175/60x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.9 / 1.9
Pressure - front / rear - Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 4.0
Camber		-25' to +1°25' N/A
Castor		+1°30' to 3° N/A
King pin inclination		+12°25' to 13°55' N/A

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-
Camber		

Torque wrench settings

Torque wrench settings		Micra 1.0 (K10)	1989 to 1990
Cylinder head - stage 1	Nm	34 to 39	
stage 2	Nm	64 to 69	

- stage 2	Nm	64 to 69
Cylinder head - stage 3	Nm	—

- stage 4	Nm	-
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Big-end bearings	Nm	29 to 34
Main bearings	Nm	46 to 52 in stages

Main bearings	Nm	15 to 22 in stages
Clutch cover	Nm	22 to 29

Flywheel [driveplate]	Nm	59 to 69 ⁴
Front hubs	Nm	147 to 206

Front hubs	Nm	147 to 200
Rear hubs	Nm	186 to 255

Wheel nuts / bolts	Nm	78 to 98
Spark plugs	Nm	25 to 30

Spark plugs	NM	25 to 29
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Capacities		Micra 1.0 (K10)	1989 to 1990
7.5 inch 1/2 film	116	3.3	

Automatic transmission - refill	litres	6.0
Final drive	litres	WT
Cooling system	litres	4.3
Fuel tank	litres	40

Notes and Illustrations

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¹[E 95 RON]: 11±5 BTDC @ idle
²95 RON: 11±5 BTDC @ idle

³[Al: 187 t