

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemMira1992 to 1996

Type		ED-10
Capacity (cm³) / number of cylinders		846 / 3
Compression ratio / pressure	bar	9.5 / 14.7
Oil pressure	bar	0.2 [2.5 to 5.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.18±0.05
Valve clearance - exhaust	mm	0.25±0.05
Firing order		1-2-3
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82±1.5
Radiator cap pressure	bar	0.59 to 1.03

Fuel systemMira1992 to 1996

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	2000±200
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Mikuni
Type / ref		1V Downdraft
Main jet / needle		0.95 to 1.20
Injection pressure	bar	—
Pump pressure	bar	0.35
Octane rating	RON	90[U]

Ignition systemMira1992 to 1996

Type		Electronic
Ignition coil		Diamond
Primary resistance	ohms	1.35 to 1.65
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Nippon Denso
Points gap (air gap)	mm	0.20 to 0.40
Dwell angle	° (%)	N/A
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 900+100-50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800
	° Crankshaft @ rpm	10.9 @ 3000
	° Crankshaft @ rpm	—
Vacuum range check	mbar	0 to 353
Maximum vacuum advance	° Crankshaft	11.5
Spark plugs		NGK
Type		BPR6EY
Electrode gap	mm	0.70 to 0.80

Electrical systemMira1992 to 1996

Battery	V / CC / RC	12 / 38Ah
Alternator voltage / full load current / engine rpm		14.2 / _ / 2500
Starter motor current / voltage - cranking	A / V	50 / 11.0 (no load)
- locked	A / V	—

Running gearMira1992 to 1996

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

Tyres		
Saloon	Size	145/70x12
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +3.0
Camber		+30'±1°-30'
Castor		+2°50'±1°
King pin inclination		+12°45'±1°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +4.0
Camber		+13'±45'

Torque wrench settingsMira1992 to 1996

Cylinder head - stage 1	Nm	20
- stage 2	Nm	35
Cylinder head - stage 3	Nm	53.9±4.9
- stage 4	Nm	—
Big-end bearings	Nm	36.3±5.9
Main bearings	Nm	58.8±5.9
Clutch cover	Nm	18.1±3.4
Flywheel [driveplate]	Nm	44.1±4.9
Front hubs	Nm	177 to 216
Rear hubs	Nm	58.8 to 78.5
Wheel nuts / bolts	Nm	88.3 to 117.7
Spark plugs	Nm	17.7±2.9

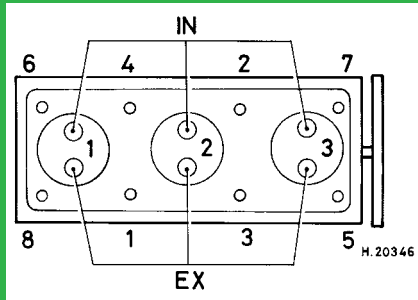
CapacitiesMira1992 to 1996

Engine oil & filter	litres	2.3
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	3.05
Fuel tank	litres	32

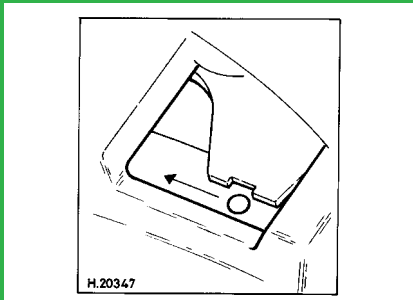
Notes and Illustrations



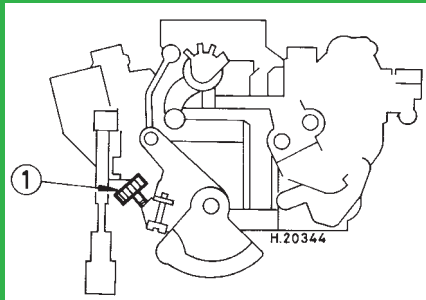
1: Idle speed 2: CO / Mixture



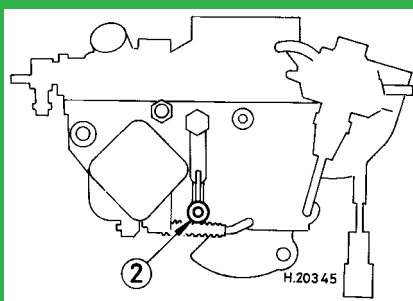
846 cm³



846 cm³



Mikuni 1V



Mikuni 1V