

Engine & Cooling

Fuel

Ignition

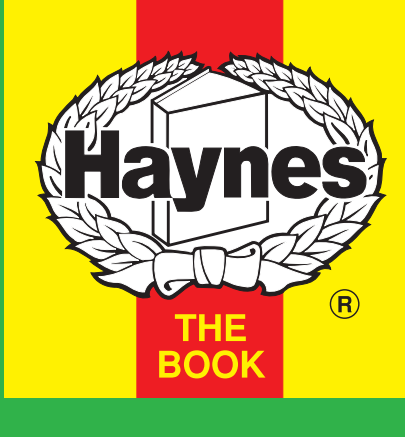
Electrical

Running gear

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Automotive Technical
DATA BOOK

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Engine and cooling systemY10 FIRE1989 to 1992

Type		156 A2.000 SOHC 33kW
Capacity (cm³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.5±0.2 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel systemY10 FIRE1989 to 1992

Idle speed - manual [auto]	rpm	750±50. 90 ►: 800 to 850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32 TLF 4/251
Main jet / needle		105
Injection pressure	bar	_
Pump pressure	bar	0.20
Octane rating	RON	98[E 95 RON]

Ignition systemY10 FIRE1989 to 1992

Type		Electronic
Ignition coil		Marelli BAE 506A / 506D
Primary resistance	ohms	0.76 to 0.92. D: 0.67 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli/Ducellier
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 800 to 1200
	° Crankshaft @ rpm	17 to 21 @ 2800 to 3200¹
	° Crankshaft @ rpm	26 to 30 @ 4100 to 4500²
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	° Crankshaft	12 to 14
Spark plugs		Bosch/Champion
Type		FR7DC / RC9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemY10 FIRE1989 to 1992

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 45 / 3500
Starter motor current / voltage - cranking	A / V	180 to 190 / 9.1 to 10.4
- locked	A / V	324 to 420 / 7.1 to 8.5

Running gearY10 FIRE1989 to 1992

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

Tyres		
Saloon	Size	135x13: 155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+15'±30' N/A
Castor		+2°30'±30'. 90 ►: +1°40'±30'
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		0±30' N/A

Torque wrench settingsY10 FIRE1989 to 1992

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	44
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

CapacitiesY10 FIRE1989 to 1992

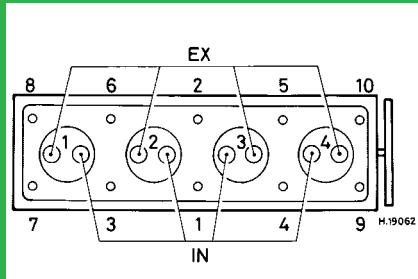
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.6
Fuel tank	litres	47

Notes and Illustrations

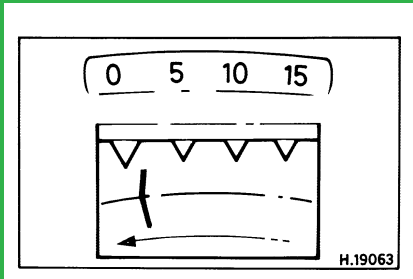
¹90 ►: 7 to 11 @ 1300 to 1700

²90 ►: 26 to 30 @ 4300 to 4700

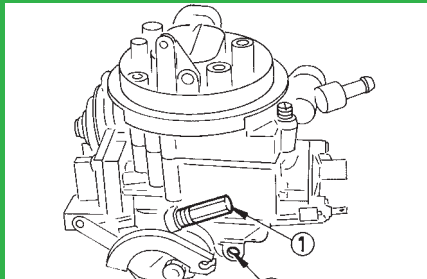
1: Idle speed2: CO / Mixture



999 cm³



999 cm³



Weber 32 TLF