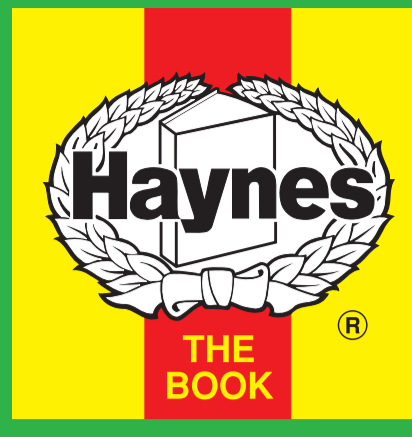


- Engine & Cooling
- Fuel
- Ignition
- Electrical
- Running gear
- Torque settings
- Capacities
- Notes & Illustrations



# 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 system 730i V8 CAT (E32) 1992 to 1994

Type		M60/B30 30 8S1 160kW
Capacity (cm <sup>3</sup> ) / number of cylinders		2997 / 8
Compression ratio / pressure	bar	10.5 / ≥12.0
Oil pressure	bar	0.5 [4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-4-8-6-3-7-2
No 1 cylinder position		PER
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	2.0±0.1

### Fuel system 730i V8 CAT (E32) 1992 to 1994

Idle speed - manual [auto]	rpm	600±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5±0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		M3.3-Motronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.5±0.06
Octane rating	RON	95[U]

### Ignition system 730i V8 CAT (E32) 1992 to 1994

Type		Direct electronic
Ignition coil		Bosch
Primary resistance	ohms	0.8±0.1
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	[0.30 to 0.70]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum  NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	Computer control
Centrifugal check.	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch
Type		F7LDCR
Electrode gap	mm	0.70 to 0.80

### Electrical system 730i V8 CAT (E32) 1992 to 1994

Battery	V / CC / RC	12 / 85Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / 140 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

### Running gear 730i V8 CAT (E32) 1992 to 1994

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
<b>Tyres</b>		
Saloon	Size	225/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.7
- Estate / Van	bar	—
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[+18'±5']
Camber		-13'±30'
Castor		+8°14'±30'
King pin inclination		+12°4'±30'
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[+18'±7']
Camber		-2°20'±30'

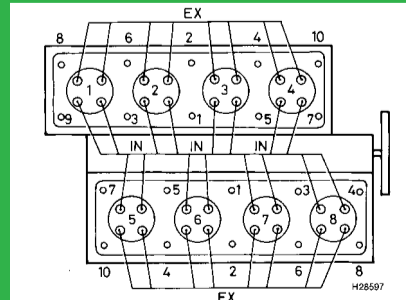
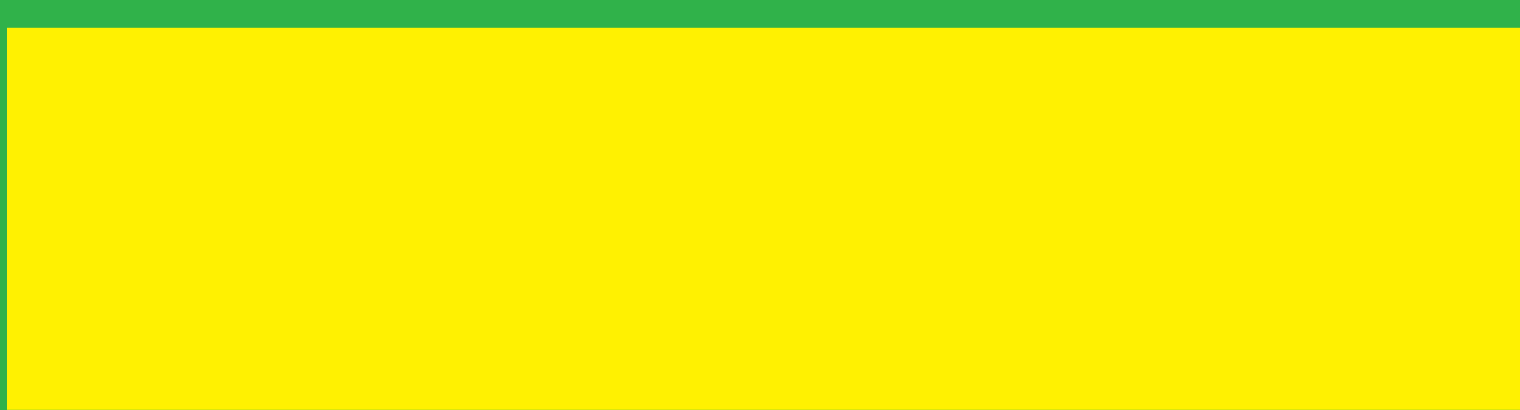
### Torque wrench settings 730i V8 CAT (E32) 1992 to 1994

Cylinder head - stage 1	Nm	30±2 N
- stage 2	Nm	+ 80±5°
Cylinder head - stage 3	Nm	+ 80±5°
- stage 4	Nm	—
Big-end bearings	Nm	5, 20±1 + 80±5° N
Main bearings	Nm	20 + 70°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	105±5
Front hubs	Nm	290
Rear hubs	Nm	247.6 ±5%
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	30 to 33

### Capacities 730i V8 CAT (E32) 1992 to 1994

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	3.3
Final drive	litres	1.7 or 1.9
Cooling system	litres	12.2. AT: 11.9
Fuel tank	litres	90 or 102

### Notes and Illustrations



2997 cm<sup>3</sup>, M60