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# Automotive Technical DATA BOOK

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## Engine and cooling system 328i E36 1996 to 1997

Type	M52 B28 DOHC 24V 142kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	2793 / 6	
Compression ratio / pressure	bar	10.2 / ≥10.0
Oil pressure	bar	≥0.5 / 4.0
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-5-3-6-2-4	
No 1 cylinder position	-	
Thermostat opening temperature	°C	92
Radiator cap pressure	bar	-

## Fuel system 328i E36 1996 to 1997

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	-
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
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	DME Motronic MS 41.0	
Main jet / needle	-	
Injection pressure	bar	-
Pump pressure	bar	3.5
Octane rating	RON	95[U]

## Ignition system 328i E36 1996 to 1997

Type	Direct electronic	
Ignition coil	-	
Primary resistance	ohms	0.37 to 0.5
Ballast resistor	ohms	-
Voltage - Tmnl 15(+) to earth	V	-
Distributor	-	
Points gap (air gap)	mm	-
Dwell angle	° (%)	-
Condenser capacity	µF	-
Rotation	-	
Ignition timing - basic [static	° Crankshaft @ rpm	-
V = Vacuum NV = No Vacuum	-	
Total ignition advance	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Centrifugal check.	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
	° Crankshaft @ rpm	-
Vacuum range check	mbar	-
Maximum vacuum advance	° Crankshaft	-
Spark plugs	Bosch	
Type	F7LDCR	
Electrode gap	mm	0.7

## Electrical system 328i E36 1996 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm	14.3 / 80 / _	
Starter motor current / voltage - cranking	A / V	-
- locked	A / V	-

## Running gear 328i E36 1996 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

<b>Tyres</b>		
Saloon	Size	205/60x15
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	Refer to vehicle
- Estate / Van	bar	-

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0°18'±8']
Camber		-0°30'±30'
Castor		3°52'±30'
King pin inclination	-	

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0°24'±6']
Camber		-1°40'±15'

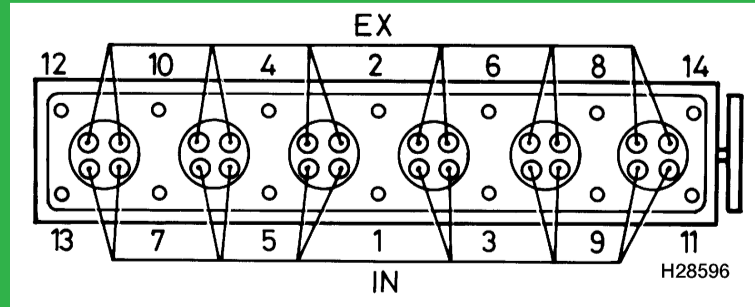
## Torque wrench settings 328i E36 1996 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	-
Big-end bearings	Nm	5, 20+70°
Main bearings	Nm	20+70°
Clutch cover	Nm	24
Flywheel [driveplate]	Nm	105
Front hubs	Nm	-
Rear hubs	Nm	300
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	-

## Capacities 328i E36 1996 to 1997

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	3.3
Final drive	litres	1.7
Cooling system	litres	10.5
Fuel tank	litres	62

## Notes and Illustrations



2793 cm<sup>3</sup> 24V