



HELP

Engine and cooling system	Urvan (E24)	1987 to 1995
Type	320S SOLIC 65kW	

Capacity (cm ³) / number of cylinders		1952 / 4
Compression ratio / pressure	bar	8.5 / ≥9.0
Oil pressure	bar	[2.9 to 3.6]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 0.98

Fuel system	Urvan (E24)	1987 to 1995
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Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	2600±100
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		Nikki
Type / ref		21A304-80 / 801
Main jet / needle		103, 160
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.27
Octane rating	RON	90[R] ¹

Ignition system	Urbay (E24)	1987 to 1995
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Ignition system		Unit (mm)	1997 to 2000
Type			Contact breaker - CIS
Ignition coil			Hanshin HP5-13E25
Primary resistance	ohms		1.4 to 1.7
Ballast resistor	ohms		—
Voltage - Tmnl 15(+) to earth	V		—
Distributor			Mitsubishi
Points gap (air gap)	mm		0.45 to 0.55
Dwell angle	° (%)		49 to 55
Condenser capacity	µF		0.20 to 0.24
Rotation			Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm		15±5 BTDC @ 700±50
V = Vacuum NV = No Vacuum			V
Total ignition advance	° Crankshaft @ rpm		—
	° Crankshaft @ rpm		—
	° Crankshaft @ rpm		—
Centrifugal check.	° Crankshaft @ rpm		0 @ 1600
	° Crankshaft @ rpm		12 @ 2800
	° Crankshaft @ rpm		18 @ 4000
Vacuum range check	mbar		200 to 400
Maximum vacuum advance	° Crankshaft		18
Spark plugs			NGK/Champion
Type			BPR5ES / RN9YC
Electrode gap	mm		0.80 to 0.90

Electrical system	Urvan (E24)	1987 to 1995
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Battery	V / CC / RC	12 / 55 or 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 15.0 / 50, 60 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.0 to 11.5

Running gear		W	(T ₂)	1997	1998
1	1000	1000	1000	1000	1000
2	1000	1000	1000	1000	1000
3	1000	1000	1000	1000	1000
4	1000	1000	1000	1000	1000
5	1000	1000	1000	1000	1000
6	1000	1000	1000	1000	1000
7	1000	1000	1000	1000	1000
8	1000	1000	1000	1000	1000
9	1000	1000	1000	1000	1000
10	1000	1000	1000	1000	1000
11	1000	1000	1000	1000	1000
12	1000	1000	1000	1000	1000
13	1000	1000	1000	1000	1000
14	1000	1000	1000	1000	1000
15	1000	1000	1000	1000	1000
16	1000	1000	1000	1000	1000
17	1000	1000	1000	1000	1000
18	1000	1000	1000	1000	1000
19	1000	1000	1000	1000	1000
20	1000	1000	1000	1000	1000
21	1000	1000	1000	1000	1000
22	1000	1000	1000	1000	1000
23	1000	1000	1000	1000	1000
24	1000	1000	1000	1000	1000
25	1000	1000	1000	1000	1000
26	1000	1000	1000	1000	1000
27	1000	1000	1000	1000	1000
28	1000	1000	1000	1000	1000
29	1000	1000	1000	1000	1000
30	1000	1000	1000	1000	1000
31	1000	1000	1000	1000	1000
32	1000	1000	1000	1000	1000
33	1000	1000	1000	1000	1000
34	1000	1000	1000	1000	1000
35	1000	1000	1000	1000	1000
36	1000	1000	1000	1000	1000
37	1000	1000	1000	1000	1000
38	1000	1000	1000	1000	1000
39	1000	1000	1000	1000	1000
40	1000	1000	1000	1000	1000
41	1000	1000	1000	1000	1000
42	1000	1000	1000	1000	1000
43	1000	1000	1000	1000	1000
44	1000	1000	1000	1000	1000
45	1000	1000	1000	1000	1000
46	1000	1000	1000	1000	1000
47	1000	1000	1000	1000	1000
48	1000	1000	1000	1000	1000
49	1000	1000	1000	1000	1000
50	1000	1000	1000	1000	1000
51	1000	1000	1000	1000	1000
52	1000	1000	1000	1000	1000
53	1000	1000	1000	1000	1000
54	1000	1000	1000	1000	1000
55	1000	1000	1000	1000	1000
56	1000	1000	1000	1000	1000
57	1000	1000	1000	1000	1000
58	1000	1000	1000	1000	1000
59	1000	1000	1000	1000	1000
60	1000	1000	1000	1000	1000
61	1000	1000	1000	1000	1000
62	1000	1000	1000	1000	1000

Running gear	Urvan (E24)	1987 to 1995
Brakes -		

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

Rear (min. friction material thickness)	mm	1.5
Tyres		

Saloon	Size	—
Estate / Van	Size	165x14: 185x14
Pressure - front / rear - Saloon	bar	—
Estate / Van	bar	2.0 / 2.0, 1.85 / 2.8 / 2.8

Front suspension / wheel alignment			
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Toe-in (+) / Toe-out (-)	mm [°]	0 to +2.0
Camber		-5' to +55'
Castor		+30' to 1°30'
King pin inclination		+8°35' to 9°35'

King pin inclination	18° 55' to 9° 55'
Rear suspension / wheel alignment	

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

Torque wrench settings		
	Urvan (E24)	1987 to 1995

Torque wrench settings		Unit (lb/ft)	1997 to 2000
Cylinder head - stage 1	Nm	29	
- stage 2	Nm	78	
Cylinder head - stage 3	Nm	Loosen, then 29	
- stage 4	Nm	+ 90 to 95°	
Big-end bearings	Nm	37 to 45	
Main bearings	Nm	44 to 54	
Clutch cover	Nm	22 to 29	
Flywheel [driveplate]	Nm	137 to 157	
Front hubs	Nm	WSM	
Rear hubs	Nm	—	
Wheel nuts / bolts	Nm	118 to 147	
Spark plugs	Nm	20 to 29	

Capacities		Urvan (E24)	1987 to 1995
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		Urban (L/100 km)	100 to 160 km/h
Engine oil & filter	litres	4.5	
Gearbox - 4-speed [5-speed]	litres	1.7 to 2.0	
Automatic transmission - refill	litres	–	
Final drive	litres	1.3	
Cooling system	litres	10.5 to 11.5	
Fuel tank	litres	65	

Notes and Illustrations

¹92 ▶: [E 95 RON]

1: Idle speed 2: CO / Mixture

