

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			626 & MX-6, 2.5i V6	1992 to 1997
Type			KL DOHC 24V 121kW	
Capacity (cm ³) / number of cylinders			2495 / 6	
Compression ratio / pressure		bar	9.2 / ≥10.0	
Oil pressure		bar	[3.3 to 4.9]	
Oil temperature		°C	—	
Valve clearance - inlet		mm	0: Hyd.	
Valve clearance - exhaust		mm	0: Hyd.	
Firing order			1-2-3-4-5-6	
No 1 cylinder position			TGR	
Thermostat opening temperature		°C	80 to 84	
Radiator cap pressure		bar	0.70 to 1.00	
Fuel system			626 & MX-6, 2.5i V6	1992 to 1997
Idle speed - manual [auto]		rpm	650±50	
Fast idle speed - manual [auto]		rpm	—	
CO @ idle speed [3000 rpm] - see page VI		%	0.5±0.5 N/A	
HC @ idle speed [3000 rpm] - see page VI		ppm	≤300	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ idle speed [3000 rpm] - see page VI		%	—	
Carburettor / fuel injection			Mazda	
Type / ref			EGI MPI	
Main jet / needle			—	
Injection pressure		bar	2.9	
Pump pressure		bar	6.3	
Octane rating		RON	95[U]	
Ignition system			626 & MX-6, 2.5i V6	1992 to 1997
Type			Electronic	
Ignition coil			—	
Primary resistance		ohms	0.49 to 0.73	
Ballast resistor		ohms	—	
Voltage - Tmnl 15(+) to earth		V	—	
Distributor			Mitsubishi	
Points gap (air gap)		mm	—	
Dwell angle		° (%)	—	
Condenser capacity		µF	—	
Rotation			—	
Ignition timing - basic [static		° Crankshaft @ rpm	10±1 BTDC @ 650±50	
V = Vacuum NV = No Vacuum			—	
Total ignition advance		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
Centrifugal check.		° Crankshaft @ rpm	Computer control	
		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
Vacuum range check		mbar	Computer control	
Maximum vacuum advance		° Crankshaft	—	
Spark plugs			NGK	
Type			ZFR5F-11	
Electrode gap		mm	1.00 to 1.10	
Electrical system			626 & MX-6, 2.5i V6	1992 to 1997
Battery		V / CC / RC	12 / 60, 65Ah	
Alternator voltage / full load current / engine rpm			14.4 to 14.7 / 90 / 2000	
Starter motor current / voltage - cranking		A / V	—	
		A / V	—	
Running gear			626 & MX-6, 2.5i V6	1992 to 1997
Brakes -				
Front (min. friction material thickness)		mm	2.0	
Rear (min. friction material thickness)		mm	1.0	
Tyres				
Saloon		Size	205/55x15	
Estate / Van		Size	—	
Pressure - front / rear - Saloon		bar	2.2 / 1.8	
		bar	—	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	+3.0±3.0	
Camber			+2°37'±45'. MX-6: +3°1'±45'	
Castor			-36'±45'. MX-6: -42'±45'	
King pin inclination			+15°4'. MX-6: +15°25'	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	+3.0±3.0	
Camber			-20'±45'	
Torque wrench settings			626 & MX-6, 2.5i V6	1992 to 1997
Cylinder head - stage 1		Nm	23 to 26	
		Nm	+ 85 to 95°	
Cylinder head - stage 3		Nm	+ 85 to 95°	
- stage 4		Nm	—	
Big-end bearings		Nm	22 to 27 + 90°	
Main bearings		Nm	WSM	
Clutch cover		Nm	18 to 26	
Flywheel [driveplate]		Nm	61 to 67	
Front hubs		Nm	235 to 319 N	
Rear hubs		Nm	117 to 135 N	
Wheel nuts / bolts		Nm	89 to 117	
Spark plugs		Nm	15 to 23	
Capacities			626 & MX-6, 2.5i V6	1992 to 1997
Engine oil & filter		litres	4.0	
Gearbox - 4-speed [5-speed]		litres	2.7	
Automatic transmission - refill		litres	6.3	
Final drive		litres	WT	
Cooling system		litres	7.5	
Fuel tank		litres	60	

Notes and Illustrations

