



ENGINE 3.9 V8i

Type	3.9 Litre V8i	
Firing order	1-8-4-3-6-5-7-2	
Cylinder Numbers		
Left bank	1-3-5-7	
Right bank	2-4-6-8	
No 1 Cylinder location	Pulley end of left bank	
Timing marks	On crankshaft vibration damper	
Spark plugs		
Make/type(8.13:1 Compression)	Champion RN11YCC	
Gap	0.84-0.96mm	
Make/type(9.35:1 Compression)	Champion RN11YCC	
Gap	0.84-0.96mm	
Coil		
Make/type	Bosch 0-221-122-392,	
Compression ratio	8.13:1 or 9.35:1	
Fuel injection system	Lucas 14 CUX Hot-wire air flow sensor system electronically controlled	
Valve Timing		
	Inlet	Exhaust
Opens	32°BTDC	70°BBDC
Closes	73°ABDC	35°ATDC
Duration	285°	285°
Valve peak	104°ATDC	114°BTDC
Idle speed - controlled by MFI system		
- all loads off in neutral	665 to 735 rev/min	
- auto gearbox in gear, air con operating	650 ± 28 rev/min	
- auto gearbox in gear, air con off	600 ± 28 rev/min	
- manual gearbox	700 ± 28 rev/min	
- manual gearbox, air con operating	750 ± 28 rev/min	
Base idle speed	525 ± 25 rev/min See FUEL SYSTEM, Fault diagnosis, Base idle speed setting.	
Ignition Timing - dynamic at 800 rev/min max, vacuum disconnected		
8.13:1 compression, non catalyst	2°BTDC ± 1°	
9.35:1 compression, non catalyst	4°BTDC ± 1°	
9.35:1 compression, catalyst	5°BTDC ± 1°	
Exhaust gas		
CO content at idle	0.5 to 1.0% max.	