ENGINE TUNING AND DATA

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Ignition Timing	Fully mapped digital ignition
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Valve Clearances Inlet and exhaust 0.30 to 0.36 mm (0.012 to 0.014 in)

Spark Plugs Make/type: 2.9 litre vehicles Champion N3C

3.6 litre vehicles Champion RC9 YC Gap 0.64mm (0.025 in)

Gap 0.64mm (0.025 in)

Ignition Coil Make/type: 2.9 litre vehicles Bosch (blue self-adhesive label)
3.6 litre vehicles Bosch (yellow self adhesive label)

Primary resistance at 20°C(68°F) 0.5 ohms \pm 10% Secondary resistance 6 K ohms \pm 10% Secondary inductance 31H \pm 20% Consumption: stationary 5.0 to 6.5 amps

running 2.5 to 3.0 amps

Distributor Make/type 2.9 litre vehicles Bosch PVF6

Make/type 2.9 litre vehicles

3.6 litre vehicles

Bosch PVF6
Lucas DHT6
Rotation of rotor (looking down at rotor)
Clockwise

Resistance rotor arm 2.9 litre vehicles 1 K ohm (Bosch type)
Resistance rotor arm 3.6 litre vehicles 1 K ohm (Lucas type)

Firing order 1,5,3,6,2,4 (No 1 cylinder at front)

 Spark plug lead resistances
 2.9 litre engine
 3.6 litre engine

 No 1
 9.8 to 23 K ohm
 No 1
 5.6 to 13.2 K ohm

 2
 8.3 to 19.5 K ohm
 2
 6 to 14 K ohm

 3
 8.3 to 19.5 K ohm
 3
 6.6 to 15.5 K ohm

 4
 10 to 29.5 K ohm
 4
 7.7 to 18.2 K ohm

 5
 10.2 to 24 K ohm
 5
 9.5 to 22 3 K ohm

5 10.2 to 24 K ohm 5 9.5 to 22.3 K ohm 6 10.8 to 25.3 K ohm 6 9.1 to 21.4 K ohm Kinglead 1.8 to 4.1 K ohm Kinglead 1.8 to 4.1 K ohm

Fuel Injection Digital Lucas microprocessor system (9 CU) Equipment Fuel pressure 3 bar (43 lbf/in²)

Exhaust Emission Exhaust gas analyser reading at engine idle speed 1 to 2% max CO at 700 rev/min without air injection — (not applicable for catalyst

vehicles)

Idle Speed $700 \pm 50 \text{ rev/min}$ $700 \pm 50 \text{ rev/min}$

Compression Pressure 2.9 Engines 3.6 Engines

 European
 2 10-230 lbf/in²
 160-170 lbf/in²

 Federal
 200-220 lbf/in²
 160-170 lbf/in²

 Rest of the World
 200-220 lbf/in²
 150-160 lbf/in²

Differential between 10 lbf/in² (max) 10lbf/in² (max) cylinders

NOTE: Compressions to be checked with all sparking plugs removed, the throttle wide open, the engine at operating temperature and cranking speed of 300 rpm (minimum).