

Technical data on the vehicle

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| Make Chrysler Model Voyager 2,4 Year Engine EDZ Variant | Date: 06-01-2013 Owner _____ |
| | Registration No. _____ VIN _____ 1. Reg. Date _____ |

| Technical item | Data |
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Engine

| | |
|--|---|
| Engine ID code | EDZ |
| Number of cylinders | R4 |
| Number of valves | 16, DOHC |
| Capacity/ (bore/ stroke) | 2429 cm ³ (87,5/ 101,0) |
| Compression ratio (RON) | 9.4: 1 (95 unleaded) |
| Max. output kW (din hp)/ rpm | 110 (150)/ 5250 |
| Max. torque NM/ rpm | 229/ 4000 |
| Engine code location | Rear side on block |
| Vehicle Identification Number location | Windscreen left side |
| Vehicle identification plate location | Type plate in the left door frame/closing plate |
| Production year code in VIN | 10th digit, model year, X = 1999 i |
| Valve clearance, inlet (cold/ hot) | (Hydraulic) |
| Valve clearance, exhaust (cold/ hot) | (Hydraulic) |
| Valve angle/ seat angle | 44° 30' - 45°/ 45° |
| Compression pressure, bar | 11.7 - 15.5 (Max. difference 25 %) |
| Oil pressure/ rpm, bar | Min. 0.25/ idle speed (1.70 - 5.50/ 3000) |
| Radiator cap, bar/ thermostat °C | 0,97 - 1,24/ 91° C i |
| Repair time: Clutch renewal | 2 hours |
| Timing belt: Renewal interval | 96,000 km/ 3 years i |
| Repair time: Timing belt renewal | 2 hours |
| Noise measurement, dB(A) at rpm | 87/ 3938 |

Engine management

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| Engine management system | MPI |
| Spark plug | Champion RC 12 YC 5 |
| Electrode gap, mm | 1,21 - 1,34 |
| Firing order | 1 - 3 - 4 - 2 (Cylinder 1 at timing gear) i |
| Ignition timing (BTDC) | i |
| Diagnostic connector | Under dashboard left side i |
| Max. timing advance (max. rpm) | (Electronic) |
| Ignition coil: Primary/ secondary resistance | 0,45 - 0,65 ohm/ 11,5 - 13,5 kohm i |
| Fuel pressure, w/wo vacuum, bar | / 3,3 |
| Injector resistance, ohm | 12,0 |
| Min. idle manifold vacuum, mbar | 590 |
| Coolant temperature sensor 20°/ 80°C | 7,0 - 13,0 kohm/ 0,7 - 1,0 kohm |
| TPS voltage, volt | Closed 0.38 - 1.2 (Open 3.1 - 4.4) |
| Fuel pump pressure, bar | Max. 6,35 bar |

Electrical system

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|-------------------------------------|--|
| Battery | 12 V 60 Ah |
| Starter motor current (cranking), A | 73 A/ 3400 rpm |
| Voltage relay, Volt at/ amp. | 12.9 - 15.0 V/ (Controlled by engine management) |
| Terminal definitions DIN 72 552 | |
| Alternator max, A | 86/ 98 |

Wheel alignment

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|-----------|---|
| Load | Unloaded (Vehicle height) |
| Toe-in, ° | 0° 06' ± 12' |
| Camber° | 0° 09' ± 24' i |
| Caster° | 1° 24' ± 1° i |

| Technical item | Data |
|----------------|------|
|----------------|------|

Wheel alignment

| | | |
|---|-----------------------------|---|
| Caster, max. difference on R and L side | 1° | |
| Rear camber° | 0° ± 15' | i |
| Rear toe-in ° | 0° ± 24' | i |
| Tyre size | 215/ 65 R 15 (215/ 65 R 16) | |
| Tyre pressure, front/ rear, bar | 2.5/ 2.5 | |
| Free play in suspension parts | Factory data | i |
| Wheel offset, mm | 6½J x 15, 6½J x 16 = 40 mm | |

Tightening torques

| | | |
|--|--------------------------------|---|
| Tightening, NM | Torque standards | |
| Cylinder head bolts, stage 1, Nm | 34 Nm oiled | i |
| Cylinder head bolts, stage 2, Nm | 68 Nm | |
| Cylinder head bolts, stage 3, Nm | 68 Nm | |
| Cylinder head bolts, stage 4, Nm | + 90° | |
| Cylinder head bolts, stage 5, Nm | (No retightening) | i |
| Repair time: Cylinder head gasket | 4 hours and 25 minutes | |
| Main bearings, Nm | M8 = 34 Nm (M11 = 41 Nm + 90°) | |
| Connection rod bearings, Nm | 27 Nm + 90° oiled | |
| Flywheel, Nm | 95 | |
| Crankshaft pulley/ vibration damp. Nm | 142 | |
| Camshaft pulley/ bearings, Nm | 101 Nm/ M6 = 12 Nm, M8 = 28 Nm | |
| Timing belt tensioner, Nm | 28 | |
| Spark plugs, Nm | 28 | |
| Wheel nuts/ bolts, Nm | 135 | |
| Wheel hub, front/ rear, Nm | 244/ (4 flange bolts 129 Nm) | |
| Repair time: Renew one rear wheel bearing | 18 minutes | |
| Repair time: Renew one front wheel bearing | 30 minutes | |

Brakes

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|---|----------------------------------|---|
| Front, min. thickness (new) | 22,5 mm (24,0 mm) | |
| Rear, min. thickness (new) | 11,25/ 251,5 mm (12,5/ 250,0 mm) | i |
| Repair time: Front brake disc renewal (2 pc.) | 40 minutes | |
| Repair time: Rear brake drum renewal (2 pc.) | 36 minutes | |

Capacities

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| Engine oil/ - incl. filter, litre | 4,3/ 4,7 (Api. SH. SH/G5 - SAE 5W-30) | |
| Manual transmission, litre | 1,9 - 2,2 (Api. SG - SG/ CD SAE 5W30) | i |
| Automatic transmission, litre | 3,8 (Total 8,6) (Mopar ATF 7176) | i |
| Power steering, litre | 0.8 | |
| Cooling system, litre | 9.0 | |
| A/C fluid, type/ gram | R134a/ 960 (With A/C in rear 1360) | |
| A/C oil, type/ cm ³ | Dens Oil 8 PAG/ 150 (With A/C in rear 220) | |

Environmental parametres

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|-----------------------------|----------------------------|---|
| Idle speed, rpm | 550 - 875 (Not adjustable) | |
| CO% at idle speed | Max. 0,5 | i |
| CO% at Increased idle speed | Max. 0.3 | |
| Lambda | 1,00 ± 0,03 | |

Remarks

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XXX

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Order No.: _____

Mechanic _____