



## HELP

## 1994 to 1997

|                                      |                          |              |
|--------------------------------------|--------------------------|--------------|
| type                                 | XU10J2U/W2/X3 (RfW) 80kW |              |
| Capacity (cm³) / number of cylinders | 1998 / 4                 |              |
| Compression ratio / pressure         | bar                      | 9.5 / –      |
| Oil pressure                         | bar                      | [6.0 to 6.3] |
| Oil temperature                      | °C                       | 80           |
| Valve clearance - inlet              | mm                       | 0.20±0.05    |
| Valve clearance - exhaust            | mm                       | 0.40±0.05    |
| Firing order                         | 1-3-4-2                  |              |
| No 1 cylinder position               | FE                       |              |
| Thermostat opening temperature       | °C                       | –            |
| Radiator cap pressure                | bar                      |              |

## 1994 to 1997

|                                           |     |                  |
|-------------------------------------------|-----|------------------|
| Idle speed - manual [auto]                | rpm | 800±50 N/A       |
| Fast idle speed - manual [auto]           | rpm | —                |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.10            |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤30              |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥13.0            |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —                |
| Carburettor / fuel injection              |     | —Magneti-Marelli |
| Type / ref                                |     | MMDCM 8P-11 MPI  |
| Main jet / needle                         |     | —                |
| Injection pressure                        | bar | 3.0              |
| Pump pressure                             | bar | —                |
| Octane rating                             | RON | 95[1]            |

## 1994 to 1997

| Type                                               | Static                 |
|----------------------------------------------------|------------------------|
| Ignition coil                                      | Sagem                  |
| Primary resistance ohms                            | 0.5                    |
| Ballast resistor ohms                              | —                      |
| Voltage - Tmnl 15(+) to earth V                    | —                      |
| Distributor                                        | —                      |
| Points gap (air gap) mm                            | —                      |
| Dwell angle ° (%)                                  | —                      |
| Condenser capacity µF                              | —                      |
| Rotation                                           | —                      |
| Ignition timing - basic [static ° Crankshaft @ rpm | 13±3 BTDC @ 800±50 N/A |
| V = Vacuum NV = No Vacuum                          | —                      |
| Total ignition advance ° Crankshaft @ rpm          | Computer control       |
| ° 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                                        | Bosch/Champion         |
| Type                                               | FR7LDC / RN9YCC        |
| Electrode gap mm                                   | 0.80                   |

## 1994 to 1997

|                                                     |             |                       |
|-----------------------------------------------------|-------------|-----------------------|
| Battery                                             | V / CC / RC | 12 / 60Ah             |
| Alternator voltage / full load current / engine rpm |             | 14.1 to 14.7 / 80 / _ |
| Starter motor current / voltage - cranking          | A / V       | _                     |
| - locked                                            | A / V       |                       |

## 1994 to 1997

## De

| Brakes -                                 |    |     |  |
|------------------------------------------|----|-----|--|
| Front (min. friction material thickness) | mm | 4.0 |  |
| Rear (min. friction material thickness)  | mm | 1.0 |  |

## Tyrosine

|                                  |      |                                   |
|----------------------------------|------|-----------------------------------|
| Saloon                           | Size | —                                 |
| Estate / Van                     | Size | 195/70x15: 205/70x15 <sup>1</sup> |
| Pressure - front / rear - Saloon | bar  | —                                 |
| Estate / Van                     | bar  | Refer to vehicle                  |

## - Estate / Val

|                                    |        |             |
|------------------------------------|--------|-------------|
| Front suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (-)           | mm [°] | -2.0±1.0    |
| Camber                             |        | 0±30' N/A   |
| Castor                             |        | +1°±30' N/A |
| King pin inclination               |        |             |

### Bear suspension / wheel alignment

|                          |        |           |
|--------------------------|--------|-----------|
| Toe-in (+) / Toe-out (-) | mm [°] | 0±1.0 N/A |
| Camber                   |        | 0±10' N/A |

## Torque wrench settings

| Torque wrench settings  |    |    | Ducato 2.0i | 1994 to 1997 |
|-------------------------|----|----|-------------|--------------|
| Cylinder head - stage 1 | Nm | 35 |             |              |

|                         |    |                       |
|-------------------------|----|-----------------------|
| Cylinder head - stage 3 | Nm | + 160°                |
| - stage 4               | Nm | —                     |
| Big-end bearings        | Nm | 40, slacken, 20 + 70° |
| Main bearings           | Nm | 70                    |
| Clutch cover            | Nm | 20                    |
| Flywheel [driveplate]   | Nm | 50 N LkC              |
| Front hubs              | Nm | 450                   |
| Rear hubs               | Nm | WSM                   |
| Wheel nuts / bolts      | Nm | 160                   |
| Spark plugs             | Nm | 28                    |

## 1994 to 1997

|                                 | litres | 5.1  |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 1.85 |
| Gearbox - 4-speed [5-speed]     | litres | —    |
| Automatic transmission - refill | litres | WT   |
| Final drive                     | litres | 9.0  |
| Cooling system                  | litres | 80   |
| Fuel tank                       | litres |      |

## Notes and Illustrations

