

SECTION 5

General data

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General data

Brake and clutch reservoirs

Universal brake fluids or any brake fluid having a minimum boiling point of 500° F (260° C) and complying with FMVSS 116 DOT4.

Windscreen washers

Screen washer fluid.

Engine cooling system (petrol & diesel models)

Ethylene glycol based anti-freeze (containing no methanol) with non-phosphate corrosion inhibitors suitable for use in aluminium engines. Use one part anti-freeze to one part water for protection down to -33° F (-36° C).

Air conditioning compressor

Nippondenso ND-8 or Unipart ND-8.

Inertia reel seat belts

DO NOT LUBRICATE. These components are lubricated for life during manufacture.

Battery terminals

Petroleum jelly. **DO NOT** use silicone grease.

Door locks (anti-burst)

DO NOT LUBRICATE. These components are lubricated for life during manufacture.

General data

CAPACITIES

The following capacities are approximate and provided as a guide only. All oil levels must be checked using the dipstick or level plugs as applicable.

Fuel tank	89 litre (19.5 gall)
Engine sump	
- 300Tdi models	5,8 litre (10.15 pt)
- V8i petrol models	6,10 litre (10.70 pt)
- Mpi petrol models	4,90 litre (8.75 pt)
Additional capacity after fitting new oil filter	
- 300Tdi models	0,85 litre (1.50 pt)
- V8i petrol models	0,56 litre (1.00 pt)
- Mpi petrol models	0,40 litre (0.70 pt)
Manual gearbox	2,67 litre (4.70 pt)
Automatic gearbox	9.80 litre (17.20 pt)
Transfer box	2,30 litre (4.00 pt)
Front differential	1,70 litre (3.00 pt)
Rear differential	1,70 litre (3.00 pt)
Washer reservoir	7,00 litre (12.00 pt)
Cooling system	
- 300Tdi manual gearbox models	11,50 litre (20.20 pt)
- 300Tdi automatic gearbox models	11,70 litre (20.60 pt)
- V8i petrol models	11,30 litre (20.00 pt)
- Mpi petrol models	10,00 litre (17.60 pt)

General data

Engine - 300Tdi

Bore	90,47 mm (3.562 in)	
Stroke	97,0 mm (3.819 in)	
Number of cylinders	4	
Compression ratio	19.5:1	
Cylinder capacity	2495 cm ³	
Firing order	1, 3, 4, 2	
Tappet clearance, inlet	0,20 mm (0.008 in)	} Engine hot or cold
Tappet clearance, exhaust	0,20 mm (0.008 in)	

Engine - Mpi

Capacity	1994 cm ³
Firing order	1 - 3 - 4 - 2
Idle speed	875 ± 50 rev/min
Exhaust gas CO content at idle speed	0.5% max
Ignition system	Programmed ignition
Spark plug type	GSP 6662
Spark plug gap	0.85 mm

General data

Engine - V8i petrol (high compression)

Bore	94,0 mm (3.700 in)
Stroke	71,12 mm (2.800 in)
Number of cylinders	8
Cylinder capacity	3952 cm ³
Compression ratio	9.35:1
Firing order	1, 8, 4, 3, 6, 5, 7, 2
Spark plug type	Champion RN9YC
Spark plug gap	0,84 to 0,96 mm
Distributor	Electronic
Ignition timing, dynamic;	4° BTDC ± 1° with vacuum pipe disconnected

Engine - V8i petrol (low compression)

This engine is fitted to vehicles without catalytic converters

Bore	94,0 mm (3.700 in)
Stroke	71,12 mm (2.800 in)
Number of cylinders	8
Cylinder capacity	3952 cm ³
Compression ratio	8.13:1
Firing order	1, 8, 4, 3, 6, 5, 7, 2
Spark plug type	Champion RN12YC
Spark plug gap	0,84 to 0,96 mm
Distributor	Electronic
Ignition timing, dynamic;	6° BTDC ± 1° with vacuum pipe disconnected

STEERING

Turns lock to lock	3.375 turns
Camber angle	Zero
Castor angle	3°
Swivel pin inclination	7°
Front wheel toe-out	0 to 2 mm
Turning circle between kerbs (all models)	11,9 m (39 feet)

General data

ELECTRICAL SYSTEM

Type	Negative earth
Voltage	12
Battery	
- 300Tdi models	072
- petrol models	091/072
Charging circuit	Alternator A127/100
Ignition system	
- V8i petrol models	Coil & Multi-coil
- Mpi petrol models	Programmed

General data

DIMENSIONS

Overall length (including spare wheel)	4521 mm (177.9 in)
Overall length (including tow hitch)	4534 mm (178.5 in)
Overall width	1793 mm (70.6 in)
Overall height (no roof bars)	1928 mm (76 in)
Overall height (open sunroof)	2005 mm (79 in)
Wheelbase	2540 mm (100 in)
Track front/rear	1486 mm (58.5 in)
Width between wheel boxes	1080 mm (42.5 in)

OFF-ROAD PERFORMANCE

Max. gradient (EEC kerb weight)	45°
Approach angle (EEC kerb weight)	39°
Departure angle with tow hitch - (EEC kerb weight)	20°
Departure angle without tow hitch - (EEC kerb weight)	29°
Wading depth	500 mm (20 in)
Min. ground clearance (unladen)	214 mm (8.4 in)

TOWING WEIGHTS

V8 & 300Tdi models	On-road	Off-road
- Unbraked trailers	750 kg (1653 lb)	500 kg (1102 lb)
- Trailers with overrun brakes	3500 kg (7716 lb)	1000 kg (2204 lb)
- 4 wheel trailers with coupled brakes*	4000 kg (8818 lb)	1000 kg (2204 lb)
Mpi models		
- Unbraked trailers	750 kg (1653 lb)	500 kg (1102 lb)
- Trailers with overrun brakes	2750 kg (6062 lb)	1000 kg (2204 lb)
Roof rack load (all models)	50 kg (110 lb)	30 kg (66lb)
Nose weight	150 kg (330 lb)	150 kg (330 lb)

NOTE: * Only applies to vehicles modified to accept coupled brakes.

NOTE: See 'Section 3' for information on towing trailer weights in excess of 3500 kg.

NOTE: All weight figures are subject to local restrictions. It is the owner's responsibility to ensure that all territorial towing regulations are complied with.

General data

VEHICLE WEIGHTS

300Tdi models

Max front axle weight	1200 kg
Max rear axle weight	1650 kg
Gross vehicle weight	2720 kg

EEC kerb weight and distribution	3 Door	5 Door basic	5 Door 'S'
- Front axle	1040 kg	1040 kg	1040 kg
- Rear axle	1015 kg	1040 kg	1060 kg
- Total	2055 kg	2080 kg	2100 kg

EEC kerb weight = Unladen weight + Full fuel tank + 75 kg driver.

V8i models

Max front axle weight	1100 kg
Max rear axle weight	1650 kg
Gross vehicle weight	2720 kg

EEC kerb weight and distribution	3 Door	5 Door
- Front axle	970 kg	970 kg
- Rear axle	1010 kg	1055 kg
- Total	1980 kg	2025 kg

EEC kerb weight = Unladen weight + Full fuel tank + 75 kg driver.

Mpi models

Max front axle weight	1110 kg
Max rear axle weight	1650 kg
Gross vehicle weight	2720 kg

EEC kerb weight and distribution	3 Door	5 Door
- Front axle	930 kg	930 kg
- Rear axle	1010 kg	1055 kg
- Total	1940 kg	1985 kg

EEC kerb weight = Unladen weight + Full fuel tank + 75 kg driver.

NOTE: Axle weights are non additive. The individual maximum axle weights and gross vehicle weight must not be exceeded.

General data

FUEL CONSUMPTION

The fuel consumption figures shown below have been calculated using a standard testing procedure (the new EC test procedure from Directive 93/116/EC), and produced in accordance with The Passenger Car Fuel Consumption (Amendment) Order 1996. Under normal use, a car's actual fuel consumption figures may differ from those achieved through the test procedure, depending on driving technique, road and traffic conditions, environmental factors, vehicle and load conditions.

MODEL	URBAN		EXTRA-URBAN		COMBINED	
	mpg	l/100km	mpg	l/100km	mpg	l/100km
Petrol models:						
2.0 Mpi Manual	17.4	16.2	29.3	9.6	23.4	12.1
3.9 V8 Manual	11.9	23.7	23.4	12.0	17.3	16.4
3.9 V8 Auto	12.4	22.8	22.4	12.6	17.3	16.3
Diesel models:						
300 Tdi Manual	24.9	11.3	37.5	7.5	31.6	8.9
300 Tdi Auto	21.7	13.0	35.0	8.1	28.5	9.9

Urban cycle

The urban test cycle is carried out from a cold start and consists of a series of accelerations, decelerations and periods of steady speed driving and engine idling. The maximum speed attained during the test is 31 mph (50 km/h), with an average speed of 12 mph (19 km/h).

Extra-urban cycle

The extra-urban test cycle is carried out immediately after the urban test. Approximately half the test comprises steady speed driving, while the remainder consists of a series of accelerations, decelerations and engine idling. The maximum test speed is 75 mph (120 km/h) and the average speed 39 mph (63 km/h). The test is carried out over a distance of 4.3 miles (7 km).

Combined

The combined figure is an average of the urban and the extra-urban test cycle results, which has been weighted to take account of the different distances covered during the two tests.

NOTE: These figures should not be compared with the figures produced using the ECE/EEC procedure previously required by The Passenger Car Fuel Consumption Order 1983. Because of the changes in test procedure, even the urban figures would differ if the same car were subjected to both tests.

General data

FUEL

Diesel Diesel or Automotive Gas Oil (AGO) to EN 590

Petrol

Catalyst vehicles 95 RON unleaded

Non-catalyst vehicles

- Mpi engines 95 RON unleaded

- V8i high compression engines 97 RON leaded or 95 RON unleaded

- V8i low compression engines 90 RON leaded or 95 RON unleaded

General data

WHEELS AND TYRES

Road wheel nut torque 130 Nm 95 lbf/ft
Wheel size 7J x 16

	Front	Rear
205 R16 radial		
Normal - all load conditions	1,9 bar	2,6 bar
	28 lbf/in ²	38 lbf/in ²
	2,0 kgf/cm ²	2,7 kgf/cm ²
235/70 R16 radial		
Normal - all load conditions	1,8 bar	2,3 bar
	26 lbf/in ²	34 lbf/in ²
	1,8 kgf/cm ²	2,4 kgf/cm ²

WARNING

Tyre pressures must be checked with the tyres cold, as the pressure is about 0.2 bar (3 lbf/in²) 0.2 kgf/cm² higher at running temperature. If the vehicle has been parked in the sun or high ambient temperatures, DO NOT reduce the tyre pressures, move the vehicle into the shade and wait for the tyres to cool before checking the pressures.

WARNING

Always use the same make and type of radial-ply tyres front and back. DO NOT use cross-ply tyres, or interchange tyres from front to back.

Never drive your vehicle if the tyres are badly worn, cut or damaged, or if the pressures are incorrect.

Incorrectly inflated tyres wear rapidly and seriously affect the vehicle's safety and road handling characteristics.

Your vehicle is fitted with tubeless road wheels that will NOT accept inner tubes. DO NOT fit a tubed tyre.
