

SECTION 5

General data

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General Data

LUBRICANTS & FLUIDS

Recommendations for all climates and conditions

COMPONENTS Specification	SAE	AMBIENT TEMPERATURE ° F										
		-22	-4	14	32	50	68	86	104	122		
Engine sump Oils must meet API service levels SG, SH or SJ	5W/30 5W/40, 5W/50 10W/30 10W/40 10W/50 10W/60											
Main gearbox - automatic ATF Dexron III*												
Transfer box ATF Dexron III*												
Final drive units API GLS MTI Fully Synthetic	75W 90R											
Power steering ATF Dexron III*												

* Manufacturer highly recommends the following blends:

- Exxon Superflo ATF Dexron III
- Texaco Havoline ATF-Mercon Dexron III

NOTE: Recommended oils are complete in themselves and additives should not be used.

NOTE: It is essential to change oil much more frequently if the vehicle is operated under severe conditions, especially if deep wading is carried out.

General Data

Brake reservoir

Universal brake fluids or any brake fluid having a minimum boiling point of 500°F (260° C) and complying with FMVSS 116 DOT 4.

Windscreen washers

Screen washer fluid.

Engine cooling system (petrol and diesel models)

Ethylene Glycol based anti-freeze (containing no Methanol) with non-phosphate corrosion inhibitors suitable for use in aluminium engines. The specific gravity of a 50% anti-freeze solution at 68° F (20° C) is 1.075 and protects against frost down to -33° F (-36° C).

Air conditioning refrigerant

R134A

Inertia reel seat belts

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

Battery terminals

Petroleum jelly. DO NOT use silicone grease.

Door locks

Lubricate at normal service intervals with FUCHS RENOCAL FN745.

General Data

CAPACITIES

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

	US units	Imperial	Metric
Fuel tank	24.6 US gall	20.5 Imp gall	93,0 litre
Engine sump	7.0 US quarts	11.6 Imp pt	6,6 litre
Automatic gearbox	10.2 US quarts	17.0 Imp pt	9,7 litre
Transfer box	2.4 US quarts	4.0 Imp pt	2,3 litre
Front differential	1.8 US quarts	3.0 Imp pt	1,7 litre
Rear differential	1.8 US quarts	3.0 Imp pt	1,7 litre
Cooling system	12.0 US quarts	20.0 Imp pt	11,3 litre
Washer reservoir	6.3 US quarts	10.6 Imp pt	6,0 litre

General Data

4.0 ENGINE

Bore	3.7 in (94 mm)
Stroke	2.8 in (71 mm)
Number of cylinders	8
Compression ratio	9.37:1
Cylinder capacity	241 cu in (3950 cm ³)
Firing order	1,8,4,3,6,5,7,2
Spark plug type	Champion RC11PYPB4
Spark plug gap	0.038 - 0.41 in (0.95 - 1.05 mm)
Tappets	hydraulic - self adjusting
Rev limiter (fuel cut-off point)	5,400 rev/min

4.6 ENGINE

Bore	3.7 in (94 mm)
Stroke	3.2 in (82 mm)
Number of cylinders	8
Compression ratio	9.37:1
Cylinder capacity	278 cu in (4554 cm ³)
Firing order	1,8,4,3,6,5,7,2
Spark plug type	Champion RC11PYPB4
Spark plug gap	0.038 - 0.41 in (0.95 - 1.05 mm)
Tappets	hydraulic - self-adjusting
Rev limiter (fuel cut-off point)	5,500 rev/min

General Data

STEERING

Steering wheel turns lock to lock	3.2 turns
Camber angle	0°
Castor angle	4°
Swivel pin inclination	8°
Front wheel toe out	0.02 in to 0.07 in (0.6 mm to 1.8 mm)
Turning circle between kerbs	39 ft (11.9 m)

ELECTRICAL SYSTEM

Type	negative earth
Voltage	12 volt
Battery	type 664 (107 amp/hr)
Charging circuit	AC Generator (alternator)
Ignition circuit	EMS - Programmed

DIMENSIONS

Overall length (bumper to bumper)	185.6 in (4713 mm)
Overall width (with mirrors folded)	76.5 in (1945 mm)
Overall height (at STANDARD ride height)	71.6 in (1818 mm)
Wheelbase	108.1 in (2745 mm)
Track - front	60.6 in (1540 mm)
rear	60.2 in (1530 mm)

General Data

APPROACH, DEPARTURE AND BREAKOVER ANGLES

NOTE: All figures are ride height figures for vehicles with 255/65 x16 tyres at curb weight, plus the weight of a 165 lb (75 kg) driver and are given in degrees.

Front - approach angle

	CRAWL & ACCESS	LOW	STANDARD	HIGH
To bib spoiler*	24°	28°	31°	34°
To bumper	28°	32°	34°	38°

* It is recommended that the bib spoiler is removed for all serious off-road driving.

Rear - departure angle

	CRAWL & ACCESS	LOW	STANDARD	HIGH
To crossmember	24°	27°	29°	32°

Breakover angle

	CRAWL & ACCESS	LOW	STANDARD	HIGH
	160°	156°	154°	151°

General Data

VEHICLE WEIGHTS

Curb weight	4787 lb	(2171 kg)
Max. front axle weight	2910 lb	(1320 kg)
Max. rear axle weight	4056 lb	(1840 kg)
Gross vehicle weight	6129 lb	(2780 kg)

CURB WEIGHT: equals the minimum unladen vehicle weight plus full fuel tank.

GROSS VEHICLE WEIGHT: equals the maximum all up weight with driver, passengers, payload equipment and towing attachment load (where applicable).

GROSS VEHICLE WEIGHT CONDITION: The maximum axle weights shown are individual axle loadings which allow for the fitting of optional equipment. The loading of both axles up to their respective maximum **MUST BE AVOIDED**, as the overall maximum vehicle weight would then be exceeded.

TOWING WEIGHTS

	On-road		Off-road	
Unbraked trailers	1650 lb	(750 kg)	1100 lb	(500 kg)
Trailers with brakes (Low range)	7700 lb	(3500 kg)	2200 lb	(1000 kg)
Trailers with brakes (High range)	6500 lb	(2950 kg)	2200 lb	(1000 kg)
Maximum tongue weight	550 lb	(250 kg)		
Roof rack load	165 lb	(75 kg) **		

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

** Driving off-road with a loaded roof rack is not recommended (see 'Roof rack' in the 'Towing & load carrying' section of the handbook).

General Data

FUEL

Gasoline

Premium unleaded gasoline with a CLC or AKI octane rating of 90 or 92 is preferred. Lower octane fuels can be used but performance and economy may be affected.

WHEELS AND TYRES

Road wheel nut torque	80 ft.lb	
Wheel size	8J x 16	
	8J x 18	
Tyre size	255/65 R16	
	255/55 R18	
	Front	Rear
Tyre pressures (all load conditions)	28 psi	38 psi
	(2.0 kgf/cm ²)	(2.7 kgf/cm ²)

WARNING

Tyre pressures must be checked with the tyres cold, as the pressure is approximately 3 psi (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.
