

Lubricants & Fluids

LUBRICANTS AND FLUIDS

Recommendations for all climates and conditions.

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.*

Engine oil - Petrol vehicles - 1.8 litre & 2.5 litre - V6

Use a 10W/40 oil meeting specification ACEA: A2 or A3 and having a viscosity band recommended for the temperature range of your locality.

Engine oil - Diesel vehicles

Use a 0W/30, 5W/30, 5W/40, 5W/50, 10W/30, 10W/40 or 10W/60 oil meeting specification ACEA: A3 and B3, and having a viscosity band recommended for the temperature range of your locality.

Engine oil temperature ranges

0W/30 will protect from -30°C (-22°F) to 35°C (95°F).

5W/30 will protect from -30°C (-22°F) to 35°C (95°F).

5W/40 will protect from -30°C (-22°F) to 50°C (122°F).

5W/50 will protect from -30°C (-22°F) to 50°C (122°F).

10W/30 will protect from -10°C (14°F) to 30°C (86°F).

10W/40 will protect from -10°C (14°F) to 50°C (122°F).

10W/60 will protect from -10°C (14°F) to 50°C (122°F).

Manual gearbox

Use Texaco MTF 94 oil.

Automatic gearbox

Use Texaco ATF N402 or Unipart ATF JF 403E oil.

Intermediate Reduction Drive

API GL5 + MT1

Rear Differential

API GL5.

Power steering

Use ATF Dextron III.

Lubricants & Fluids

Brake reservoir

Shell ESL Donax EB brake fluid or any brake fluid having a minimum boiling point of 260°C and complying with FMVSS 116 DOT4.

Windscreen washers

Screen washer fluid.

Engine cooling system

Use Castrol Anti-freeze SF or Texaco XLC. Use one part anti-freeze to one part water for protection down to -36° C.

Inertia reel seat belts

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

Capacities

CAPACITIES

Fuel tank (usable):	
Petrol engines	64 litres (14.1 gallons)
Diesel engines	59 litres (13 gallons)
Engine oil (and filter) refill:	
1.8 Petrol engines	4.5 litres (7.9 pints)
2.5 Petrol engines	5.2 litres (9.2 pints)
2.0 Diesel engines	6.8 litres (12 pints)
Manual gearbox fill from dry:	
1.8 Petrol engines	2.2 litres (3.9 pints)
2.0 Diesel engines	1.6 litres (2.8 pints)
Automatic gearbox refill:	
2.5 Petrol engines	4.0 litres (7.0 pints)
2.0 Diesel engines	4.0 litres (7.0 pints)
Cooling system fill from dry:	
1.8 Petrol engines	5.8 litres (10.2 pints)
2.5 Petrol engines	7.8 litres (13.7 pints)
2.0 Diesel engines:	
- Manual transmission	7.25 litres (12.8 pints)
- Automatic transmission	7.5 litres (13.2 pints)
Washer reservoir	4.0 litres (7 pints)

Engines

ENGINES

1.8 litre petrol

Fuel	UNLEADED 95 RON† to EN 228 specification is recommended
Capacity	1796 cm ³
Firing order	1-3-4-2
Idle speed	750 ± 50 rev/min
Bore	80 mm (3.15 in)
Stroke	89.3 mm (3.52 in)
Number of cylinders	4 in-line
Compression ratio	10.5:1
Ignition system	MEMS3 breakerless, electronic
Spark plugs	GSP 66527
Spark plug gap	1.0 mm ± 0.05
CO ₂ emissions	248 g/km
† Unleaded fuels of 95 - 98 RON can be used.	

2.5 litre petrol

Fuel	UNLEADED 95 RON† to EN 228 specification is recommended
Capacity	2497 cm ³
Firing order	1-6-5-4-3-2
Idle speed	750 ± 50 rev/min
Bore	80 mm (3.15 in)
Stroke	82.8 mm (3.26 in)
Number of cylinders	6 V-arrangement
Compression ratio	10.5:1
Ignition system	Siemens engine management system
Spark plugs	GSP 66527
Spark plug gap	1.0 mm ± 0.05
CO ₂ emissions	298 g/km
† Unleaded fuels of 95 - 98 RON can be used.	

Engines

2.0 litre diesel

Fuel	Diesel to EN 590 specification. CAUTION: This vehicle is NOT compatible with 'Bio-diesel' fuel.
Capacity	1951 cm ³
Firing order	1-3-4-2
Idle speed	780 ± 50 rev/min
Bore	84.0 mm (3.31 in)
Stroke	88.0 mm (3.46 in)
Number of cylinders	4 in-line
Compression ratio	18.0:1
CO ₂ emissions	
Manual	205 g/km
Automatic	240 g/km

Electrical System

ELECTRICAL SYSTEM

Battery type:	
1.8 Petrol engine	H5 sealed for life
2.5 Petrol engine	H6 sealed for life
Diesel engine	H6 or H7, sealed for life, dependent on territory
Battery rating:	
1.8 Petrol engine	55 amp/hr
2.5 Petrol engine	75 amp/hr
Diesel engine	75 amp/hr (H6), 80 amp/hr (H7)
Voltage and polarity	12 V, negative (-) earth

Steering

STEERING

Track:	
- Front	1534 mm (60.4 in)
- Rear	1545 mm (60.8 in)
Turning circle	11.6 m (38 ft 1.2 in)
Steering wheel turns lock to lock	3.16
Wheel alignment:	
- Front (toe out)	-14' ± 15"
- Rear (toe in)	20' ± 15"

Wheels & Tyres

WHEELS & TYRES

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.
- For optimum performance and handling **ALWAYS** replace tyres with the same make and type as those fitted from new at the factory. If these tyres are not available, consult your Dealer/Authorised Repairer for advice on Land Rover approved alternatives. Failure to do so may adversely affect vehicle handling.
- **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 can 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 tube tyre.
- **ONLY** Land Rover approved wheel and tyre combinations should be fitted to the vehicle.

Wheel size and type

Type	Size
Steel wheels	5.5J x 15
Alloy wheels:	
15" wheels	5.5J x 15
16" wheels	6.0J x 16
17" wheels	7.0J x 17
18" wheels	7.0J x 18
Road wheel nut torque	115 Nm
Spare wheel nut torque to carrier	45 Nm

Tyre specification

Wheel size	Tyre	Snow Chain Fitment	
		Front	Rear
5.5J x 15(steel & alloy)	195/80 R15 'All Season' tyre	Y	Y
6.0J x 16(alloy)	215/65 R16 'Multi terrain' tyre	N	N
7.0J x 17(alloy)	225/55 R17 'Multi terrain' tyre	N	N
7.0J x 18(alloy)	235/50 R18 'All Season' tyre	N	N

NOTE: For further information on Snow Chains, see 'SNOW CHAINS', page 187.

Tyre Pressures

TYRE PRESSURES

	Tyre pressures - kPa (lbf/in ²)	
All driving conditions (all tyre sizes)	Front & Rear	211 (30)

NOTE: Where a 195/80 R15 tyre on a steel rim is supplied for use as a temporary spare wheel, it should be inflated to the appropriate pressure shown in the above table.

See 'Temporary use spare wheel', page 200.

NOTE: A range of accessory wheels and tyres is available for your Land Rover Freelander. Consult your Land Rover Dealer/Authorised Repairer for a full description of all options.

Please note that this handbook does NOT list accessory tyres or accessory tyre pressures.

Accessory wheels - insert details

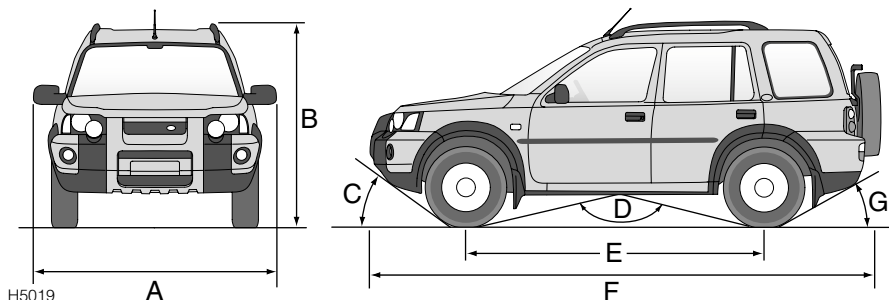
Wheel size	Tyre	Snow Chain Fitment	
		Front	Rear

Accessory tyres - insert details

Loading condition		Tyre Pressure
Normal operating conditions	Front	
	Rear	
Vehicle loaded to maximum gross vehicle weight	Front	
	Rear	

Dimensions

DIMENSIONS - 3 & 5 DOOR

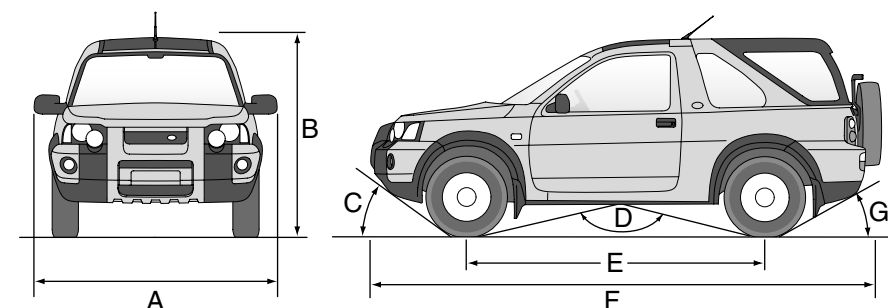


5-door model illustrated

A	Overall width (inc. mirrors)	2071 mm (6 ft 9.5 in)
B	Overall height† - 3 door - 5 door	1709 mm (5 ft 7.3 in) 1700 mm (5 ft 6.9 in)
B	Overall height† (inc. roof bars and cross rails): - 3 door - 5 door	1800 mm (5 ft 10.9 in) 1820 mm (5 ft 11.7 in)
C	Max. approach angle†	30.5°
D	Max. breakover angle	156°
E	Wheelbase	2557 mm (8 ft 4.7 in)
	Ground clearance (minimum)†	186 mm (7.3 in)
	Wading depth (maximum)	400 mm (15.7 in)
F	Overall length (inc. 195/80 spare wheel/tyre): All models	4423 mm (14 ft 6.1 in)
F	Overall length (inc. 215/65 spare wheel/tyre): All models	4437 mm (14 ft 6.7 in)
G	Max. departure angle (with towbar)†	23.6°
G	Max. departure angle (without towbar)†	33.9°
	† At EEC kerb weight	

Dimensions

DIMENSIONS - 'SPORT' 3 & 5 DOOR

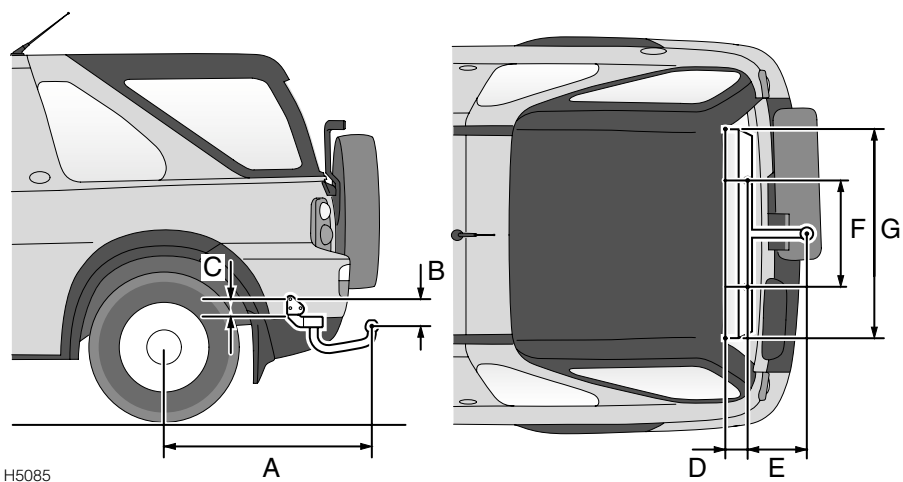


3-door model illustrated

A	Overall width (inc. mirrors)	2071 mm (6 ft 9.5 in)
B	Overall height†	
	- 3 door	1688 mm (5 ft 6.5 in)
	- 5 door	1679 mm (5 ft 6.1 in)
B	Overall height† (inc. roof bars and cross rails):	
	- 3 door	1779 mm (5 ft 10 in)
	- 5 door	1799 mm (5 ft 10.8 in)
C	Max. approach angle†	29.4°
D	Max. breakover angle	158°
E	Wheelbase	2557 mm (8 ft 4.7 in)
	Ground clearance (minimum)†	165 mm (6.5 in)
	Wading depth (maximum)	400 mm (15.7 in)
F	Overall length (inc. 195/80 spare wheel/tyre): All models	4423 mm (14 ft 6.1 in)
F	Overall length (inc. 215/65 spare wheel/tyre): All models	4437 mm (14 ft 6.7 in)
G	Max. departure angle (with towbar)†	23.1°
G	Max. departure angle (without towbar)†	33.2°
	† At EEC kerb weight	

Tow Bar Dimensions

TOW BAR DIMENSIONS



H5085

A	Wheel centre to centre of towball	892 mm
B	Centre of inner attachment points to centre of towball	126 mm
C	Centre inner attachments to centre outer attachments	79 mm
D	Centre inner attachments to centre outer attachments	118 mm
E	Centre inner attachments to centre of towball	265 mm
F	Distance between centres of inner attachments	500 mm
G	Distance between centres of outer attachments	990 mm
Dimensions refer to towing equipment officially released by Land Rover		

Vehicle Weights

VEHICLE WEIGHTS

Approximate unladen vehicle weight (full fuel tank, excluding options):	
Petrol models	1427 - 1650 kg (3146 - 3638 lb)
Diesel models	1555 - 1640 kg (3428 - 3616 lb)
Maximum gross vehicle weight:	
1.8 Petrol models	2040 kg (4497 lb) *
2.5 Petrol models	2060 kg (4542 lb) *
2.0 Diesel models	2080 kg (4586 lb) *
Maximum rear axle load:	
Petrol models	1120 kg (2470 lb)
Diesel models	1120 kg (2470 lb)
Maximum front axle load:	
1.8 Petrol models	1050 kg (2315 lb)
2.5 Petrol models	1080 kg (2381 lb)
2.0 Diesel models	1100 kg (2425 lb)

NOTE: Axle weights are non additive; ie Maximum gross vehicle weight is not calculated by adding together maximum front and rear axle loads. The individual maximum axle weights and gross vehicle weight must not be exceeded.

***NOTE:** When towing, the gross vehicle weight can be increased by a maximum of 100 kg, provided road speed is limited to 60 mph (100 km/h).

Towing Weights

TOWING WEIGHTS

MAXIMUM TRAILER WEIGHT. With vehicle loaded to gross vehicle weight (GVW).			
	On-road	Off-road	Maximum Tow Hitch Load (Nose weight)
All engines			
Unbraked trailer	750 kg (1653 lb)	500 kg (1102 lb)	140 kg (309 lb)
Trailer with over-run brakes	2000 kg (4409 lb)	500 kg (1102 lb)	140 kg (309 lb)
To increase stability when loading to the maximum trailer weight, it is recommended that trailer load distribution be adjusted to achieve the maximum nose weight limit, see ' <i>ESSENTIAL TOWING CHECKS</i> ', page 149.			
NOTE: When towing on-road, DO NOT exceed 60 mph (100 km/h)			

GROSS TRAIN WEIGHT (WITH OVER-RUN BRAKES) = GVW plus maximum weight of trailer.			
Petrol engine 1.8	4040 kg (8907 lb)		140 kg (309 lb)
Petrol engine 2.5	4060 kg (8951 lb)		140 kg (309 lb)
Diesel engine 2.0	4080 kg (8995 lb)		140 kg (309 lb)

MAXIMUM ROOF RACK WEIGHT			
	On-road	Off-road	
Land Rover approved system	75 kg (165 lb)	30 kg (66 lb)	
NOTE: The weight of Land Rover approved roof bars and cross rail roof rack is allowed for before further weight calculations are made. However, if an alternative roof rack system is to be used, the weight of the system must be included as part of the load weight.			

Fuel Consumption

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 load and condition.

Fuel consumption figures

	URBAN		EXTRA-URBAN		COMBINED	
	mpg	l/100km	mpg	l/100km	mpg	l/100km
1.8 Petrol manual	20.8	13.6	33.3	8.5	27.3	10.4
2.5 Petrol automatic	16.5	17.2	29.1	9.7	22.7	12.4
2.0 Diesel manual	31.0	9.1	42.2	6.7	37.2	7.6
2.0 Diesel automatic	25.2	11.3	39.6	7.1	32.8	8.6

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 of 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 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 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.

Appendices

DECLARATIONS OF CONFORMITY

IMPORTANT INFORMATION

The Declarations of Conformity detailed on the following pages are from manufacturers of RF (Radio Frequency) equipment, whose components are used in the manufacture of your Land Rover Freelander.

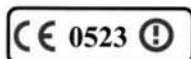
These manufacturers state that their components comply with relevant rules of the R & TTE (Radio and Telecommunication Terminal Equipment) directive.

The directive requires the manufacturer of short range radio devices to self certify that RF parts fitted to Land Rover vehicles are fit for use and that the declarations are supplied with the vehicle documentation. If at a future date a technical inspection is required, the declarations will provide all necessary information.

NOTE: *The Declarations of Conformity are published in the native language of the RF equipment manufacturer, in compliance with the R & TTE Directive.*

Appendices

DECLARATION OF CONFORMITY



This declaration is the responsibility of the manufacturer / authorised representative within the Community:

TRW Automotive Electronics
45, College Road Perry Bar Birmingham, B44 8DU UNITED KINGDOM
(Name / Address)

This certifies that the following designated product

17TN&8RCv3
(Product identification)

complies with the essential protection requirements of R&TTE Directive 1999/5/EC on the approximation of the laws of the Member States relating to **Radio Spectrum Matters, EMC and Electrical Safety.**

This declaration applies to all specimens manufactured in accordance with the technical documentation described in the annex II. TRW Automotive Electronics keep this documentation at the proposal of the relevant national authorities of any Member State for inspection purpose. Assessment of compliance of the product with the requirements relating to the essential requirements acc. to Article 3 R&TTE was based on Annex IV of the Directive 1999/5/EC and the following standards:

Radio Spectrum:

EN 300 220-1
(Identification of regulations / standards)

EMC:

EN 300 683
(Identification of regulations / standards)

Safety:

EN 60950 & ISO 3795 (based on FMVSS 302)
(Identification of regulations/ standards)

 The Transmitter 17TN and 8RCv3 are 433.92 MHz radio equipment not submitted to harmonised standards. This device is licence exempt and distributed in the European countries which will apply the R&TTE directive: Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and UK.

(Place, date)

Birmingham, England

20/02/2001

(Signature)

JOHN BURGESS

Appendices

DECLARATION OF CONFORMITY

We, Dynex Semiconductor
Doddington Road
Lincoln
Lincolnshire
LN6 3LF
England

declare that the following Car Alarm Mass Movement Sensors:

DA5819-001, DA5819-002

meet the intent of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.
Compliance was demonstrated by conformance to the following specifications, which have been listed in the Official Journal of the European Communities.

EMC (Requirements of ETS 30683)

Emissions

- a) EN 55022 Enclosure
- b) EN 55022/CISPR 16-1 DC power in/out

Immunity

- a) EN 6 1000-4-3 RF electro magnetic field (80 - 1000 MHz)
- b) EN 6 1000-4-2 Electrostatic discharge
- c) EN 61000-4-6 RF common mode (current clamp injection 0.15-80 MHz)
- d) ISO 7637 Parts 1 and 2 Transients and surges

SAFETY

EN 60950



MERVYN K. HOBDEN
Technology Leader — Sensor Products Group
Date: 21/02/01

Appendices



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IDA INDUSTRIAL ESTATE,
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Fax: +353 93 25133
A/C Fax: +353 93 24047

1999/5/EC Declaration of Conformity

EC Directive:	1999/5/EC
Manufacturer:	Connaught Electronics Ltd (CEL) IDA Industrial Estate Dunmore Road Tuam Co Galway Ireland
Apparatus:	<i>L20 Immobiliser</i>
Apparatus Class:	2
Radio Notified Body:	Motor Industry Research Association Watling Street Nuneaton Warwickshire, CV10 0TU
Radio Notified Body Number:	0888
Applicable Documents:	ETSI EN 300 330 (1999-05) CEPT ERC REC 70/03 Annex 9 95/56/EC 95/54/EC

I certify that the *L20 Immobiliser* conforms with the essential requirements of the 1999/5/EC Directive as defined in article 3. This declaration of conformity has been issued under the sole responsibility of the manufacturer.

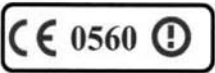
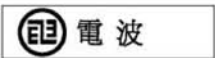
Signed on behalf of CEL by Paul Connors Team leader R&D


Paul Connors

Date: 10th July 2002

Appendices

17TN/8RCv3 TYPE APPROVALS

COUNTRY		APPROVAL
Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Tahiti and UK		
Canada (Tx)		19841021576
Canada (Rx)		35821032194A
Cyprus		MCW 129/954/1998
Gibraltar		Yes
Malta		WT/962/9211
New Zealand		Yes
South Africa		RX-387/98
USA		KHH17TN
Brazil		 108200-ASP1194
Croatia (Tx)		SRD-144/00
Croatia (Rx)		SRD-145/00
Czech Republic		
Korea		
Latvia		313R
Lithuania		0261
Poland		 ML S.H.Nr1155/2000
Saudi Arabia		TRW 17TN/8RCv3 made in UK 433.92 MHz, 3V lithium battery SASO 1322/1997
Slovakia		
Slovenia		C231—1603/00
Taiwan		
Tunisia		0292/MAT/2000
Uruguay		059/DFR/2000

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