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

Use a 5W/30 oil meeting specification ACEA: A1 or A3, or API, SJ, SL, or SM.

Land Rover WSS-M2C913-B preferred.

Engine oil - Diesel vehicles

Use 5W/30 oil meeting ACEA: B1 or B3.

Main gearbox

Manual: Castrol MTF BOT338

Automatic: Shell ATF M1375.4

Transfer gearbox

All vehicles: Shell TF 0753.

Front differential:

All vehicles: SAF XO.

Rear differential:

Non-locking: SAF XO.

Locking: Castrol SAF Carbon Mod Plus.

Power steering

Texaco Cold Climate PAS fluid.

Brake reservoir

Use Shell DOT4 ESL or a low viscosity DOT4 brake fluid that meets ISO 4925 class 6 and Land Rover LRES22BF03 requirements.

Windscreen washers

Screen washer fluid.

Engine cooling system

Use Castrol antifreeze SF, with one part antifreeze to one part water for protection down to -40°C (-40°F).

Caution: Be aware that different types of antifreeze are VERY different from each other; even different types from the same manufacturer.

The use of non-approved antifreeze will have an adverse effect on the engine cooling system and therefore engine durability.

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 - Petrol engines	86 litres	19 gallons
Fuel tank - Diesel engines	82 litres	18 gallons
Engine oil (dry fill):		
- Diesel vehicles	6.55 litres	11.53 pints
- V8 Petrol vehicles	8.0 litres	14.10 pints
- V6 Petrol vehicles	6.4 litres	12.08 pints
Engine oil refill and filter change:		
- Diesel vehicles	5,45 litres	9.6 pints
- V8 Petrol vehicles	7,7 litres	13.5 pints
- V6 Petrol vehicles	5,7 litres	10 pints
Engine oil minimum to maximum on dipstick:		
- Diesel vehicles	1.5 litres	2.64 pints
- V8 Petrol vehicles	1.5 litres	2.64 pints
- V6 Petrol vehicles	1.4 litres	2.46 pints
Manual gearbox	1.6 litres	2.6 pints
Automatic gearbox	Filled for life	Filled for life
Transfer box	1.5 litres	2.64 pints
Front differential	0.66 litres	1.2 pints
Rear differential - non-locking	1.16 litres	2.0 pints
Rear differential - electronic locking	1.61 litres	2.8 pints
Washer reservoir	5.0 litres	8.8 pints
Cooling system (fill from dry):		
- Diesel vehicles with fuel burning heater	18.0 litres	31.7 pints
- V8 Petrol vehicles	14.0 litres	24.63 pints
- V6 Petrol vehicles	17.0 litres	29.91 pints
Cooling system (refill):		
- Diesel vehicles	8.0 litres	14.1 pints
- V8 Petrol vehicles	9.5 litres	16.7 pints
- V6 Petrol vehicles	8.5 litres	15 pints

ENGINES

V6 Diesel

Recommended Fuel	Diesel or Automotive Gas Oil (AGO) to EN 590 specification. This engine is NOT COMPATIBLE with Bio-diesel fuel.
Capacity	2720 cm^3
Firing order	1-4-2-5-3-6
Bore	81.0 mm
Stroke	88.0 mm
Number of cylinders	6
Compression ratio	17.3:1

V8 Petrol

Recommended Fuel	UNLEADED 95 RON to EN 228 specification Unleaded with a RON no lower than 90 may also be used.
Capacity	4394 cm^3
Firing order	1-5-4-2-6-3-7-8
Bore	88.0 mm
Stroke	90.3 mm
Number of cylinders	8
Compression ratio	10.5:1
Spark plugs	NGK IFR5N10
Spark plug gap	Non-adjustable

V6 Petrol

Recommended Fuel	UNLEADED 95 RON to EN 228 specification Unleaded with a RON no lower than 90 may also be used.
Capacity	4009 cm^3
Firing order	1-4-2-5-3-6
Bore	100.4 mm
Stroke	84.4 mm
Number of cylinders	6
Compression ratio	9.7:1
Spark plugs	Motorcraft AGSF 24 PM
Spark plug gap	Non-adjustable

Temperature Compensation

When the ambient temperature is high, it is advised to increase the COLD inflation pressure. The amount of increase for a given ambient temperature is shown in the table below.

Note: *The tyre pressure should only be adjusted when the tyres are cold. The temperature given relates to ambient air temperature. i.e. The temperature of the air surrounding the vehicle during normal use.*

Ensure that if the tyre pressures are increased due to high temperatures, the cold inflation pressure must be returned to the 'normal' value as soon as the temperature decreases.

Ambient Temperature $^0C/^0F$	**Pressure Compensation** KPa/bar/lbf/in^2
25/77	No increase required
35/95	+ 6.9/0.07/1
45/113	+ 13.8/0.14/2
55/131	+ 21/0.21/3

Wheel and tyre specification

Wheel size	Tyre	Load index
7J x 17	235/70 R17 H	111
8J x 18	255/60 R18 H or V	112
8J x 19	255/55 R19 H or V	111

Accessory wheel and tyre specification
Insert details

Wheel size	Tyre	Front	Rear

Note: *Consult your Land Rover Dealer/Authorised Repairer before you fit any accessory wheels or tyres.*

WEIGHTS

Approximate EEC kerb weights (full fuel tank)		
- Petrol engine vehicles	2,486 - 2,704 kg	5,315 - 5,796 lb
- Diesel engine vehicles	2,494 - 2,718 kg	5,498 - 5,992 lb
Maximum gross vehicle weight		
- All vehicles	3,180 - 3230kg	7,011 - 7121lb
Maximum front axle load		
- All vehicles	1,450 kg	3,197 lb
Maximum rear axle load		
- All vehicles	1,840 - 1,875kg	4,056 - 4,134lb
Maximum towing limits		
Gross Train Weight (Weight of Vehicle plus Trailer with Overrun Brakes)	6,680 - 6,730 kg	14,727 - 14,837 lb
Roof load (including the weight of roof rack)	75 kg	165 lb

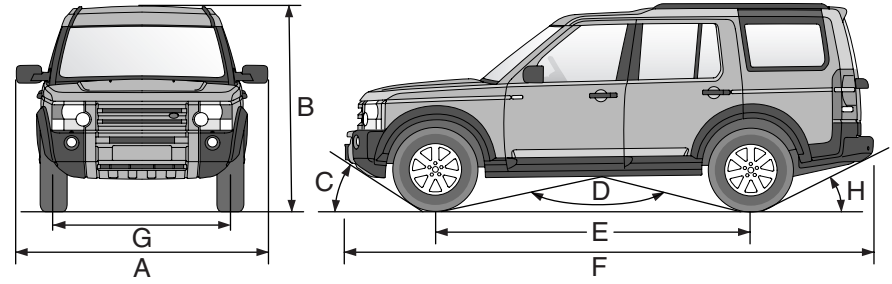
Note: *Axle weights are non-additive. The individual maximum axle weights and gross vehicle weight must not be exceeded.*

Towing weights

Maximum permissible towed weights	**On-road**	**Off-road**
Unbraked trailers	750 kg (1,654 lb)	750 kg (1,654 lb)
Trailers with overrun brakes	3,500 kg (7,716 lb)	1,000 kg (2,205 lb)
Nose weight	150 kg (330 lb)	-

DIMENSIONS

Air Suspension

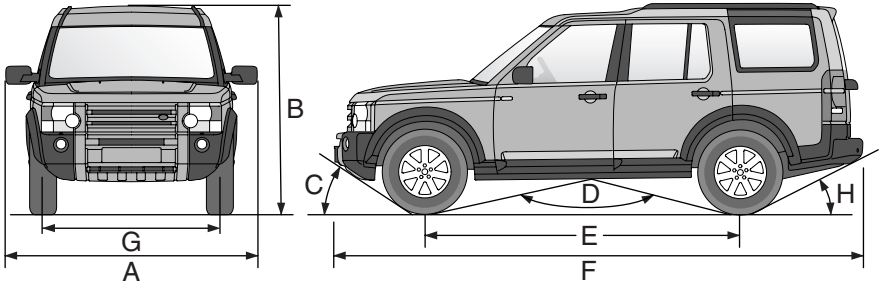


H5737G

A	Overall width	2191 mm	86.26 in.
	Overall width (mirrors folded)	2009 mm	79.09 in.
B	Overall height - Access height - Standard height - Off-road height	 1837 mm 1887 mm 1942 mm	 72.32 in. 74.29 in. 76.46 in.
C	Approach angle (at EEC kerb weight and off-road height)	37.2^{o}	
D	Ramp breakover angle (at EEC kerb weight and off-road height)	124.2^{o}	
E	Wheelbase	2885 mm	113.6 in.
F	Overall length	4848 mm	190.9 in.
	Overall length (including tow hitch - to centre of tow ball)	4913 mm	193.4 in.
G	Track:		
	- Front	1605 mm	63.2 in.
	- Rear	1612.5 mm	63.5 in.
H	Departure angle without tow hitch (at EEC kerb weight and off-road height)	29.6^{o}	
	Departure angle with tow hitch (at EEC kerb weight): - Standard ride height - Off -road ride height	 15.7^{o} 18.5^{o}	
	Wading depth - Standard height - Off-road height	 600 mm 700 mm	 24 in. 28 in.
	Minimum ground clearance (off-road height)	240 mm	9.44 in.

	Maximum gradient, nose up/down - Continuous operation - Drive-through	 35° 45°	
	Turning circle	11.45 metres	37.56 ft

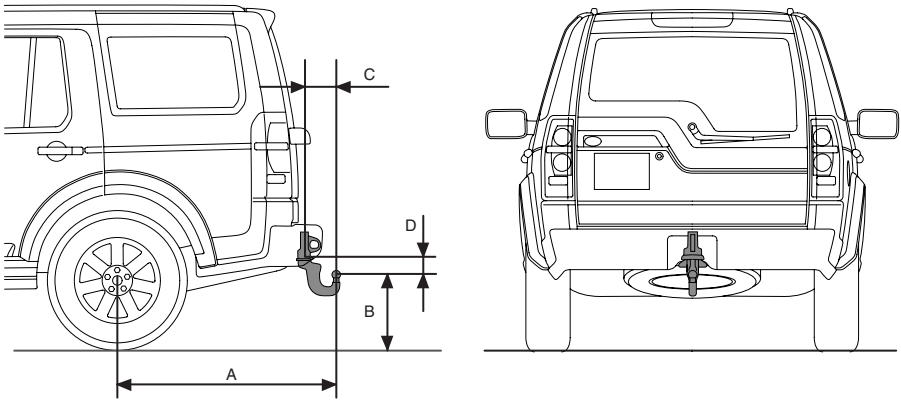
Coil Spring Suspension



H5737G

A	Overall width	2191 mm	86.26 in.
	Overall width (mirrors folded)	2009 mm	79.09 in.
B	Overall height	1887 mm	74.29 in.
C	Approach angle (at EEC kerb weight)	32.2°	
D	Ramp breakover angle (at EEC kerb weight)	157.2°	
E	Wheelbase	2885 mm	113.6 in.
F	Overall length	4848 mm	190.9 in.
	Overall length (including tow hitch - to centre of tow ball)	4913 mm	193.4 in.
G	Track:		
	- Front	1605 mm	63.2 in.
	- Rear	1612.5 mm	63.5 in.
H	Departure angle without tow hitch (at EEC kerb weight)	24.9°	
	Departure angle with tow hitch (at EEC kerb weight)	15.7°	
	Wading depth	600 mm	24 in.
	Minimum ground clearance (off-road height)	240 mm	7.3 in.
	Maximum gradient, nose up/down - Continuous operation - Drive-through	 35° 45°	

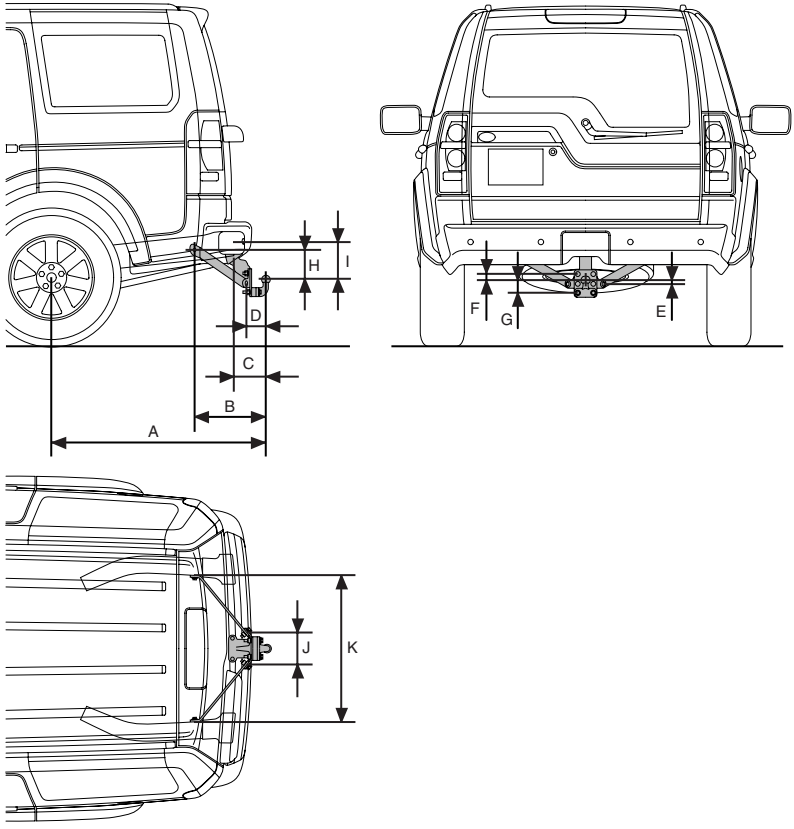
TOW BAR DIMENSIONS



H5632G

A	Wheel centre to centre of towball	1,190 mm	46.9 in.
B	Ground to centre of towball	409 mm	16.1 in.
C	Centre of towball to tow bar attachment	170 mm	6.7 in.
D	Centre of towball to tow bar attachment	124 mm	4.9 in.
Dimensions refer to towing equipment officially released by Land Rover			

MULTI-HEIGHT DROP PLATE TOW BAR DIMENSIONS



H5763N

A	Wheel centre to centre of towball (horizontal)	1,210 mm	47.64 in.
B	Centre of outer attachment points to centre of towball (horizontal)	403,6 mm	15.89 in.
C	Centre line of housing 'bayonet' slot tip radius to centre of towball (horizontal)	192,4 mm	7.57 in.
D	Centre of inner attachment points to centre of towball (horizontal)	108 mm	4.25 in.

E	Centre of inner attachment points to centre of towball (vertical)	20 mm	0.79 in.
F	Centre of upper towball plate bolt to centre of towball (vertical)	36 mm	1.42 in.
G	Centre of lower towball plate bolt to centre of towball (vertical)	70 mm	2.76 in.
H	Centre of outer attachment points to centre of towball (horizontal)	167.3 mm	6.59 in.
I	Centre line of housing bayonet slot tip radius to centre of towball (vertical)	174.3 mm	6.86 in.
J	Distance between inner attachment point centres	180.5 mm	7.10 in.
K	Distance between outer attachment point centres	822.5 mm	32.38 in.

FUEL CONSUMPTION FIGURES

The fuel consumption figures shown below have been calculated using a standard testing procedure (the new EC test procedure from Directive 99/100/EC), and produced in accordance with The Passenger Car Fuel Consumption (Amendment) Order 1996.

Under normal use, a vehicle'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.

	URBAN	EXTRA-URBAN	COMBINED
	l/100km	l/100km	l/100km
V6 Diesel (manual)	11.5	8.2	9.4
V6 Diesel (automatic)	13.2	8.7	10.4
V8 Petrol	20.9	11.6	15.0
V6 Petrol	21.0	11.9	15.2

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 50 km/h with an average speed of 19 km/h.

Extra-urban cycle

The extra-urban cycle test 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 120 km/h and the average speed 63 km/h. The test is carried out over a distance of 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 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.*

DECLARATIONS OF CONFORMITY

The Declarations of Conformity are from manufacturers of RF (Radio Frequency) equipment, whose components are used in the manufacture of your Discovery 3.

These manufacturers state that their components comply with relevant rules of the R and 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 and TTE Directive.*

Declaration of Conformity appropriate to the Directive 1999/5/EC (R&TTE)
Annex IV

Visteon Deutschland GmbH
.....
Manufacturer,

Notified Body consulted: **Phoenix Test-Lab, Königswinkel 10, D-32825 Blomberg**
ID-Number of Notified Body: **0700**

declare under our responsibility that the product: **RKE Transmitter**

Type: **TXRET5**

☐ Telecommunications Terminal Equipment ☒ Radio Equipment

Remote Keyless Entry System Transmitter **2**
Intended Purpose Equipment Class

complies with the appropriate essential requirements of the Article 3 of the R&TTE and the other relevant provisions, when used for its intended purpose.

Health and Safety requirements contained in Article 3 (1) a)

EN 60 950: 2001 Information technology equipment – Safety --
EN 50 371: 2002, Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz – 300 GHz) – General public.

Protection requirements with respect to electromagnetic compatibility Article 3 (1) b)

EN 301 489-03 V.1.4.1: 08/2002, Electromagnetic Compatibility and radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services, Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz.

Means of the efficient use of the radio frequency spectrum

☒ Air interface specification of the radio path contained in Article 3(2)

EN 300 220-3 V1.1.1: 09/2000, Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.

Address:

Visteon Deutschland GmbH
Visteonstrasse 4 - 10
50170 Kerpen
Germany
URL: www.visteon.com

Dr. Wilfried Janke
Managing Director Visteon Deutschland GmbH

CE 0700

DECLARATION OF CONFORMITY

Trade Name: Connaught Electronics Ltd. Model No: LQN5752 Tested to comply FCC Standards 15B FOR HOME OR OFFICE USE	Canadian 2306A-5752 Model 5752 by Connaught Electronics Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

Supplier
Connaught Electronics Ltd.
Supplier Address
Dunmore Road,
Tuam
Co. Galway,
Ireland

This certifies that the following designated product

T5 RECEIVER 315MHZ PART NO. 5752

.....
(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. Connaught Electronics Ltd. 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.....
(Identification of regulations / standards)

(Place, date) (Signature)

Tuam, Ireland

16/03/2004

(Signature)
ALAN MORAN

DECLARATION OF CONFORMITY

CE 0682

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

Supplier
Connaught Electronics Ltd.
Supplier Address
Dunmore Road,
Tuam
Co. Galway,
Ireland

This certifies that the following designated product

T5 RECEIVER 433MHZ PART NO. 5751

.....
(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. Connaught Electronics Ltd. 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:

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(Identification of regulations / standards)

EMC : .....EN 300 683 .....
(Identification of regulations / standards)

Safety : .....EN 60950.....
(Identification of regulations / standards)

(Place, date) (Signature)

Tuam, Ireland

16/03/2004

(Signature)