

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 - V8 Petrol vehicles

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

Engine oil - V8 Petrol supercharged vehicles

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

Engine oil - Diesel vehicles

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

Main gearbox

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 14315 Cold Climate PAS fluid.

Dynamic Response

Texaco 14315 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.

Lubricants & Fluids

Engine cooling system

Use Castrol antifreeze SF, with one part antifreeze to one part water for protection down to -36°C (-33°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.

Inertia reel seat belts

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

LAND ROVER RECOMMENDS



Capacities

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 vehicles	88 litres	19.3 gall
- Diesel vehicles	84 litres	18.4 gall
Engine oil (from dry):		
- Diesel vehicles	6,55 litres	11.5 pints
- V8 NA Petrol vehicles	8,0 litres	14 pints
- V8 SC Petrol vehicles	10.9 litres	19.2 pints
Engine oil refill and filter change:		
- Diesel vehicles	5,45 litres	9.6 pints
- V8 NA Petrol vehicles	7,7 litres	13.5 pints
- V8 SC Petrol vehicles	8,0 litres	14 pints
Automatic gearbox	Filled for life.	Filled for life.
Front differential	0,69 litres	1.2 pints
Rear differential - non-locking	1,16 litres	2 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	11,21 litres	19.7 pints
- V8 NA Petrol vehicles	15 litres	26.4 pints
- V8 SC Petrol vehicles	16 litres	28.1 pints
Cooling system (refill):		
- Diesel vehicles	8 litres	14.1 pints
- V8 NA Petrol vehicles	9,5 litres	16.7 pints
- V8 SC Petrol vehicles	12 litres	21.1 pints

Engines

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 Naturally Aspirated (NA)

Recommended Fuel	UNLEADED 95 RON to EN 228 specification Unleaded with a RON no lower than 90 may be used.
Capacity	4398 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

V8 Petrol supercharged (SC)

Recommended Fuel	UNLEADED 95 RON to EN 228 specification Unleaded with a RON no lower than 90 may be used.
Capacity	4196 cm ³
Firing order	1-5-4-2-6-3-7-8
Bore	86,0 mm
Stroke	90,3 mm
Number of cylinders	8
Compression ratio	9.1:1
Spark plugs	NGK IFR5N10
Spark plug gap	Non-adjustable

Electrical System

ELECTRICAL SYSTEM

Battery type:

Petrol vehicles	H7 75 amp/hr
Diesel vehicles	H8 75 amp/hr

Battery rating:

Voltage and polarity	12 V, negative (-) earth
Charging circuit	Alternator

Steering

STEERING

Steering wheel turns lock to lock	3.3
Turning circle	11.45 metres (37.56 ft)
Camber angle	-0.5°
Castor angle	4.4°
King pin inclination	13.9°
Front wheel toe-out included angle	10°

Wheels & Tyres

WHEELS & TYRES

WARNING

- **ALWAYS** use 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 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 tubed tyre.
 - **ONLY** Land Rover approved wheel and tyre combinations should be fitted to the vehicle.
 - If a temporary spare is in use the vehicle must be driven with caution at reduced speed (80 km/h (50 mph maximum)). A standard wheel and tyre should be fitted as soon as possible, and only one temporary spare should be fitted to the vehicle at any one time.
-

Wheel size and type

Type	Size
Alloy wheels	7J x 17 8J x 18 8J x 19 9J x 19 9.5J x 20
Temporary spare wheel - steel	5.5J x 19
Road wheel nut torque to hub	140 Nm (+/- 10 Nm)

Wheels & Tyres

Tyre specification

Wheel size	Tyre	Load Index	Snow Chain Fitment	
			Front	Rear
7J x 17 (alloy wheel)	235/65 R17 - All terrain tyre	108H	Y	N
8J x 18 (alloy wheel)	255/55 R18 - All terrain tyre	109V	Y	N
8J x 19 (alloy wheel)	255/50 R19 - All terrain tyre	107Y	Y	N
9J x 19 (alloy wheel)	255/50 R19 - All terrain tyre	107Y	N	N
9.5J x 20 (alloy wheel)	275/40 R20 - All terrain tyre	106Y	N	N
5.5J x 19 (steel wheel)	T175/80 R19 - Temporary spare tyre	122M	N	N

Note: Your vehicle tyres are tuned to maximise driving dynamics. Although the standard tyres do have all weather capability, for the maximum winter or off-road capability, alternative tyres are available and should be fitted if extreme conditions are going to be encountered.

Note: For further information on Snow Chains, see **SNOW CHAINS, 263**.

Temporary spare wheel*

WARNING

The following precautions must be observed when the temporary spare wheel is in use:

DRIVE CAUTIOUSLY; the temporary spare wheel tyre is smaller in size and higher in pressure than a regular tyre. It will cause a harsher ride and may have less traction on some road surfaces. If driving off-road on a temporary spare wheel, drive with extra caution.

- The temporary spare wheel is for **TEMPORARY** use only. It **MUST** be replaced by a normal-sized wheel and tyre as soon as possible.
- Only **ONE** temporary spare wheel is to be used on the vehicle at any one time.
- **DO NOT** drive at a speed exceeding 80 km/h (50 mph).
- The tyre pressure in the temporary spare wheel/tyre should be as detailed in the tyre pressures table, see **WHEELS & TYRES, 313**.
- The temporary spare wheel has a shorter life than a regular tyre. Replace the tyre with one of the same type and specification.
- The use of snow chains is not permitted on a temporary spare wheel.

Wheels & Tyres

TYRE PRESSURES

Tyre inflation pressures

Loading condition		kPa	bar	lbf/in ²
Normal operating conditions	Front	230	2.3	34
	Rear	250	2.5	36
Vehicle loaded to maximum gross vehicle weight or (any load condition above 4 occupants)	Front	260	2.6	38
	Rear	290	2.9	42
Temporary spare wheel (All operating conditions)		420	4.2	60

Note: The pressure for your spare tyre should be set to the highest value given for your vehicle's wheel/tyre size combination and adjusted after fitment.

Note: When towing a heavily laden trailer, tyre pressures should be increased to the maximum specified in the handbook, and road speeds limited to 100 km/h (60 mph). This excludes the temporary spare wheel * which has a maximum permitted speed of 80 km/h (50 mph) with tyre pressures maintained at those shown in the above table.

Accessory wheels - insert details

Wheel size	Tyre	Snow Chain Fitment	
		Front	Rear

Accessory wheel tyre pressures - insert details

Loading condition		kPa	bar	lbf/in ²
Normal operating conditions	Front			
	Rear			
Vehicle loaded to maximum gross vehicle weight	Front			
	Rear			

Vehicle Weights

VEHICLE WEIGHTS

Approximate unladen vehicle weight (full fuel tank, excluding options)

Petrol engine vehicles (NA)	2480-2485 kg	5467-5478 lb
Petrol engine vehicles (SC)	2572 kg	5670 lb
Diesel engine vehicles	2455-2479 kg	5412-5465 lb

Maximum gross vehicle weight (GVW)

Petrol engine vehicles (NA)	3070 kg	6768 lb
Petrol engine vehicles (SC)	3125 kg	6889 lb
Diesel engine vehicles	3070 kg	6768 lb

Maximum front axle load

All vehicles	1470 kg	3241 lb
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Maximum rear axle load

All vehicles	1710 kg	3770 lb
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Maximum towing limits

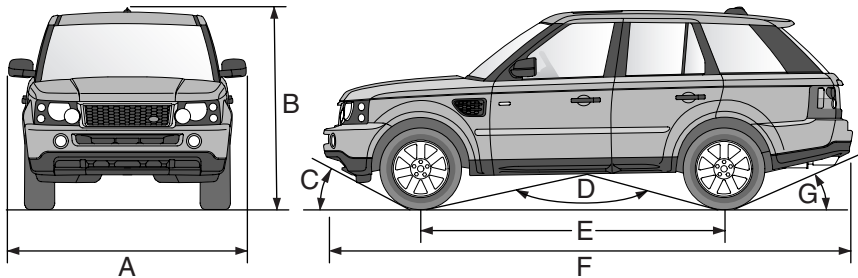
Front axle load	1470 kg	3241 lb
Rear axle load	1967 kg	4336 lb
Gross Train Weight (Weight of vehicle plus trailer with overrun brakes)		
Petrol engine vehicles (NA)	6570 kg	14,484 lb
Petrol engine vehicles (SC)	6625 kg	14,605 lb
Diesel engine vehicles	6570 kg	14,484 lb

Note: The pressure for your spare tyre should be set to the highest value given for your vehicle's wheel/tyre size combination and adjusted after fitment.

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

Dimensions

DIMENSIONS



H6340G

Dimensions

A	Overall width (including mirrors)	2170 mm	85.4 in.
B	Overall height (including antenna module)	1812 mm	71.3 in.
B	Overall height (including roof rails)	1784 mm	70.2 in.
E	Wheelbase	2745 mm	108 in.
	Track:		
	- Front	1605mm	63.2 in.
	- Rear	1612.5mm	63.5 in.
F	Overall length	4788 mm	188.5 in.
	Overall length (including no plate plinth)	4798 mm	188.9 in.

Approach and departure angles

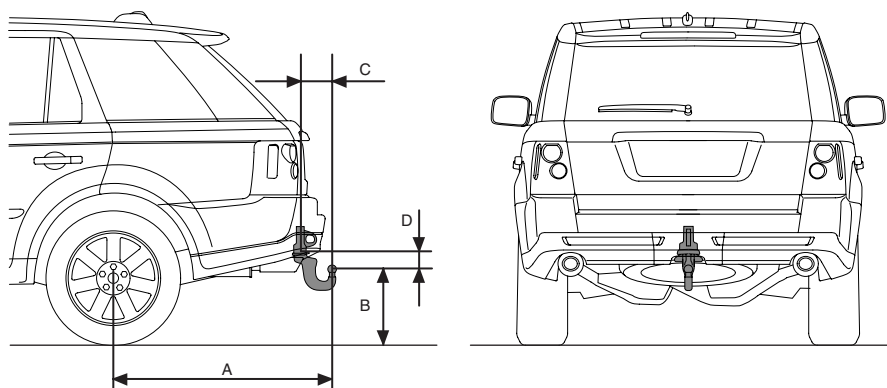
	Maximum gradient (at EEC kerb weight)	35° Continuous operation 45° Drive through operation
C	Approach angle (at EEC kerb weight): - On-road - Off-road	30.2° 34.0°
D	Ramp angle - On-road - Off-road	20.0° 25.0°
G	Departure angle with tow hitch (at EEC kerb weight): - On-road - Off-road	15.1° 17.8°
G	Departure angle without tow hitch (at EEC kerb weight): - On-road - Off-road	26.0° 29.0°

Towing

TOWING WEIGHTS & DIMENSIONS

Maximum permissible towed weights	On-road	Off-road
Unbraked trailers	750 kg (1654 lb)	750 kg (1654 lb)
Trailers with overrun brakes	3500 kg (7716 lb)	1000 kg (2205 lb)
Roof rack load (including the mass of roof rack)	75 kg (165 lb)	50 kg (110 lb)

TOW BAR DIMENSIONS

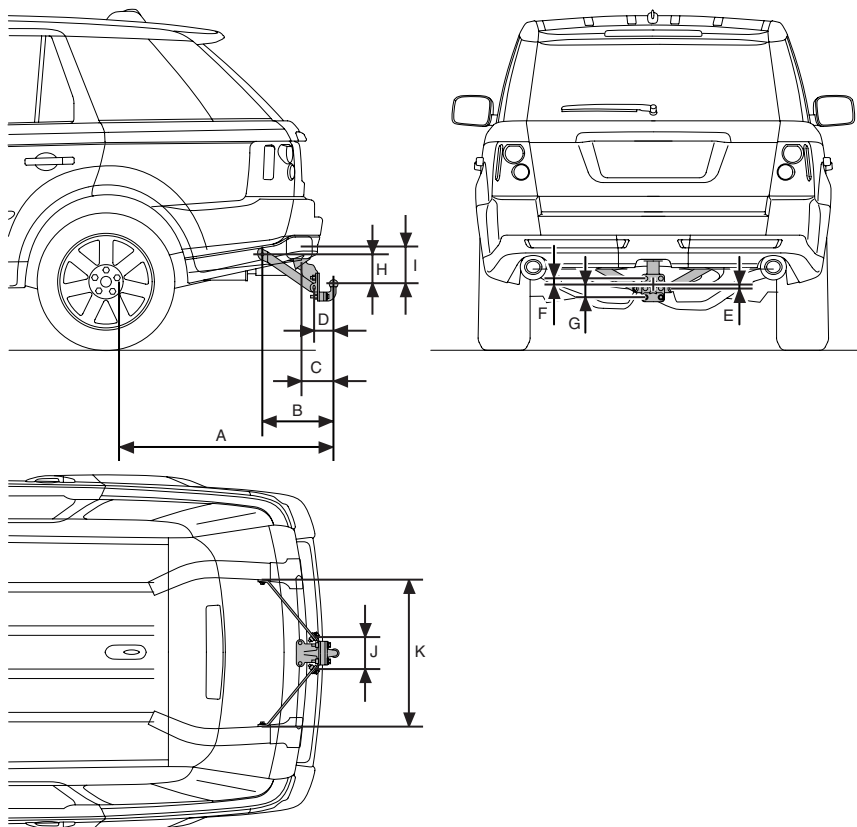


H6224G

A	Wheel centre to centre of towball	1191 mm	46.9 in.
B	Ground to centre of towball	395 mm	15.55 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.
<i>Dimensions refer to towing equipment officially released by Land Rover</i>			

Towing

MULTI-HEIGHT DROP PLATE TOW BAR DIMENSIONS



H6225N

A	Wheel centre to centre of towball (horiz)	1210 mm	47.64 in.
B	Centre of outer attachment points to centre of towball (horiz)	403,6 mm	15.89 in.
C	Centreline of housing 'bayonet' slot tip radius to centre of towball (horiz)	192,4 mm	7.57 in.
D	Centre of inner attachment points to centre of towball (horiz)	108 mm	4.25 in.
E	Centre of inner attachment points to centre of towball (vert)	20 mm	0.79 in.
F	Centre of upper towball plate bolt to centre of towball (vert)	36 mm	1.42 in.
G	Centre of lower towball plate bolt to centre of towball (vert)	70 mm	2.76 in.

Towing

H	Centre of outer attachment points to centre of towball (horiz)	167,3 mm	6.59 in.
I	Centreline of housing 'bayonet' slot tip radius to centre of towball (vert)	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.

Appendices

DECLARATIONS OF CONFORMITY

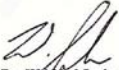
The Declarations of Conformity are from manufacturers of RF (Radio Frequency) equipment, whose components are used in the manufacture of your Range Rover Sport.

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 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

Appendices

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)

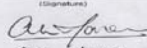
Safety : EN 60950.....
(Identification of regulations / standards)

(Place, date)

(Signature)

Tuam, Ireland

16/03/2004

(Signature)

ALAN MORAN

Appendices

DECLARATION OF CONFORMITY



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:

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)

Tuam, Ireland

16/03/2004

(Signature)

.....
(Signature)
Alastair Moran
ALAST MORAN

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