

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 vehicles



Use only oils 'Certified for Gasoline Engines' by the American Petroleum Institute (API). To protect your engine's warranty, use an SAE 5W/30 oil meeting specification WSS-M2C205-A (GF3).

Engine oil - V6 vehicles



Use only oils 'Certified for Gasoline Engines' by the American Petroleum Institute (API). To protect your engine's warranty, use an SAE 5W/30 oil meeting specification WSS-M2C929-A (GF4).

Main gearbox

All vehicles: Shell ATF M1375.4.

Transfer gearbox

All vehicles: Shell TF 0753.

Front differential:

All vehicles: SAF XO.

Rear differential:

Non-locking: SAF XO.

Locking: SAFXJ

Power steering

Texaco Cold Climate PAS fluid 14315.

Brake reservoir

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

Windshield washers

Screen washer fluid.

Engine cooling system

Texaco XLC, with one part antifreeze to one part water for protection down to -33°F (-36°C).

Lubricants & Fluids

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	86 litres	22.72 gallons
Engine oil (dry fill):		
- V8 Petrol vehicles	8.6 litres	18.18 Pints
- V6 Petrol vehicles	6,3 litres	13.31 pints
Engine oil refill and filter change:		
- V8 Petrol vehicles	7,7 litres	13.5 pints
- V6 Petrol vehicles	5,7 litres	16.27 pints
Engine oil minimum to maximum on dipstick:		
- V8 Petrol vehicles	1.5 litres	3.17 pints
- V6 Petrol vehicles	1.4 litres	2.6 pints
Automatic gearbox	Fill for life.	Fill for life.
Transfer box	1.5 litres	3.17 pints
Front differential	0,69 litres	1.46 pints
Rear differential - non-locking	1,16 litres	2.45 pints
Rear differential - electronic locking	1,61 litres	3.4 pints
Washer reservoir	5,0 litres	10.57 pints
Cooling system (fill from dry):		
- V8 Petrol vehicles	15 litres	31.7 pints
- V6 Petrol vehicles	12 litres	25.36 pints
Cooling system (refill):		
- V8 Petrol vehicles	9,5 litres	20 pints
- V6 Petrol vehicles	8,5 litres	17.9 pints

Engines

ENGINES

V8

Fuel	Premium Unleaded fuel with an octane rating of 91 or higher
Displacement	4394 cm ³
Firing order	1-5-4-2-6-3-7-8
Idle speed	550 - 850 rev/min
Bore	88,0 mm
Stroke	90,3 mm
Number of cylinders	8
Compression ratio	10.75:1
Spark plugs	NGK IFR5N10
Spark plug gap	1,5 mm (0.060 in.)

V6

Fuel	Premium Unleaded fuel with an octane rating of 90 or higher
Displacement	4009 cm ³
Firing order	1-4-2-5-3-6
Idle speed	700 - 75 600 - 900 rev/min
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	1,5 mm (0.060 in.)

Electrical System

ELECTRICAL SYSTEM

Battery type:	
All vehicles	Group 95R, sealed for life
Battery rating:	
All vehicles	75 amp/hr
Voltage and polarity	12 V, negative (-) earth
Charging circuit	Alternator

Steering

STEERING

Steering wheel turns lock to lock	3.3
Turning circle curb to curb	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 & Tires

WHEELS & TIRES

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/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 tubed tyre.
- **ONLY** Land Rover approved wheel and tyre combinations should be fitted to the vehicle.

Wheel size and type

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

Tire specification

Wheel size	Tire	Load Index	Snow Chain Fitment	
			Front	Rear
7J x 17 (alloy wheel)	235/70 R17 H - All terrain tire	111	Y	N
8J x 18 (alloy wheel)	255/60 R18 H or V - All terrain tire	112	Y	N
8J x 19 (alloy wheel)	255/55 R19 H or V - All terrain tire	111	Y	N

Note: For further information on Snow Chains, see **SNOW CHAINS, 257**.

Wheels & Tires

TIRE PRESSURES

Tire inflation pressures

		kPa	bar	lbf/in ²
Normal operating conditions	Front	230	2.3	33
	Rear	250	2.5	36
Loaded to Maximum GVW	Front	230	2.3	33
	Rear	290	2.9	42
Compact spare tire (All operating conditions)		420	4.2	60

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

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

Accessory wheels - insert details

Wheel size	Tire	Snow Chain Fitment	
		Front	Rear

Accessory wheel tire 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

DEFINITIONS

- **Curb Weight**

Minimum unladen vehicle weight plus a full fuel tank.

- **Gross Vehicle Weight**

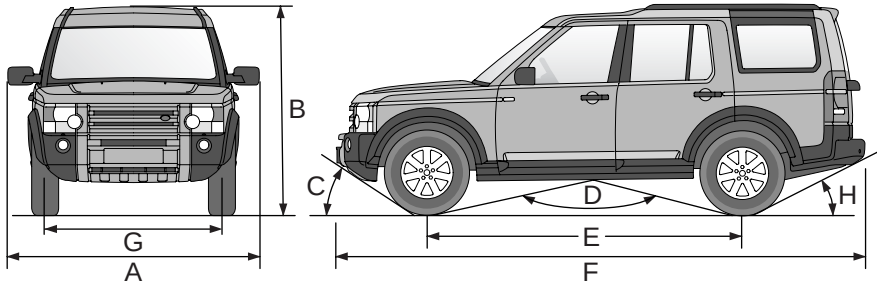
Maximum permissible weight of vehicle with driver, passengers, payload, equipment and towing attachment load (where applicable).

Approximate curb weights (full fuel tank)		
V6	2411 - 2625 kg	5315 - 5787 lb.
V8	2461 - 2629 kg	5426 - 5796 lb.
Maximum gross vehicle weight (GVW)		
V6	3180 - 3230 kg	7011 - 7121 lb.
V8	3230 kg	7121 lb.
Maximum front axle load		
All vehicles	1450 kg	3197 lb.
Maximum rear axle load		
See vehicle VIN plate	1840 - 1875 kg	4056 - 4134 lb.
Gross train Weight (GVW + Max Trailer Weight)		
See vehicle VIN plate	6680 - 6730 kg	14727 - 14837 lb.

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

Dimensions

DIMENSIONS



H5737G

A	Overall width	2191 mm	86.26 in.
	Overall width (mirrors folded)	2009 mm	79.09 in.
B	Overall height (standard ride height)		
	- Fixed roof	1887 mm	74.3 in.
	- Sunroof open	1920 mm	75.6 in.
	- With roof side rails	1891 mm	74.4 in.
	- With roof antenna module	1940 mm	76.4 in.
C	Approach angle (curb weight and off-road height)	37.2°	
D	Breakover angle (curb weight and off-road height)	124.2°	
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 mm	63.5 in.
H	Departure angle without tow hitch (curb weight and off-road height)	30°	
	Departure angle with tow hitch (at curb weight):		
	- Standard ride height	15.7°	
	- Off -road ride height	18.5°	
	Wading depth		
	- Standard height	600 mm	23.62 in.
	- Off-road height	700 mm	27.56 in.
	Minimum ground clearance (off-road height)	240 mm	9.45 in.
	Maximum gradient, nose up/down		
	- Continuous operation	35°	
	- Drive-through	45°	

Towing

TOWING WEIGHTS

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.)
Maximum permissible tongue weight	250 kg (550 lb.)	250 kg (550 lb.)

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