

Lubricants and 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

Use a 5W/20 oil meeting specification WSS M2C925-A.

Land Rover recommends Castrol SLX Professional 5W-20.

In an emergency, if oil of the above specification is unavailable, the engine can be topped-up using a maximum of 2 US pints (1 litre) of 5W-20 oil meeting specification ILSACGF-4 API SM.

Main gearbox

Shell ATF M1375.4

Transfer gearbox

Use Shell TF 0753.

Front differential

All vehicles: Castrol SAF XO.

Rear differential

Non-locking: Castrol SAF XO

Locking: Castrol SAF Carbon Mod Plus

Power steering

Texaco Cold Climate PAS fluid 33270.

Brake reservoir

Use Shell DOT4 ESL or a low viscosity DOT 4 brake fluid that meets ISO 4925 class 6 requirements.

Windshield washers

Screen washer fluid.

Engine cooling system

Antifreeze: Use Havoline XLC to WSS-M97B44 (Texaco XLC) - orange color, with one part antifreeze to one part water for protection down to -40°C (-40°F).

Capacities

CAPACITIES

With the exception of the front and rear differential 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. The front and rear differentials must be filled to the volume listed below.

Fuel tank	27.6 gallons (104.5 litres)
Engine oil refill and filter change:	16.9 pints (8 litres)
Front differential: - Dry fill	1.69 pints (0.8 litres)
Rear differential - non-locking: - Dry fill	2.53 pints (1.2 litres)
Transfer case: - Dry fill	3.17 pints (1.5 litres)
Washer reservoir	6.3 pints (13.31 litres)
Cooling system (refill): - V8 NA vehicles - V8 SC vehicles	31.7 pints (15 litres) 33.8 pints (16 litres)

Engines

ENGINES

Recommended fuel	Premium UNLEADED with a CLC or AKI octane rating of 91 or higher.
Capacity	5000 cm ³
Firing order	1-5-4-2-6-3-7-8
Bore	92.5mm
Stroke	93 mm
Number of cylinders	8
Compression ratio	NA 11.5 : 1 SC 9.5 : 1

Wheels and Tires

WHEELS AND TIRES

Wheel size and tire specification

Normal tires

Wheel size	Tire
8J x 19	255/55 R19 111 V M+S - Michelin Latitude Diamaris -M & S
8.5J x 20	255/50 R20 109 Y M+S - Michelin Tour HP - M & S

Winter tires

Wheel size	Tire
8J x 19	255/55 R19 111 H- Goodyear Ultra Grip
8.5J x 20	255/50 R20 109 V- Continental Cross Contact Winter

Wheels and Tires

Tire pressures

Tire pressures are listed on a placard on the driver's B pillar (visible with the driver's door open). Always ensure that pressures match those given on the placard. See **Tire information label** (page 204).

Tire pressures listed on the vehicle certification placard are considered to be the recommended cold tire inflation pressures, at maximum gross vehicle weight condition, measured when the tires are **cold**, after the vehicle has been parked for at least 3 hours or driven less than 3 miles (5 km).

When you drive for more than 3 miles (5 km), the tires, and the air inside them, warm up and it is normal for the tire pressure to increase above the recommended cold pressure. When checking tire pressure in this condition, never bleed or reduce air pressure.

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 heavy trailers or with the tow vehicle loaded, the additional imposed nose weight may cause the GVW tire loading to be exceeded. This is permissible provided that road speeds are limited to 60 mph (100 km/h).*

Winter tire pressures

The cold tire inflation pressures for winter tires are the same as those for normal tires of the same size.

Tire inflation pressure

It is important that tires be properly inflated. Air pressure enables a tire to support the vehicle load, so proper inflation is critical. Failure to maintain correct inflation pressures may result in rapid and uneven tread wear, erratic vehicle handling and excessive heat build-up, which may result in tire failure.

It is impossible to determine if a tire is properly inflated just by looking at it.

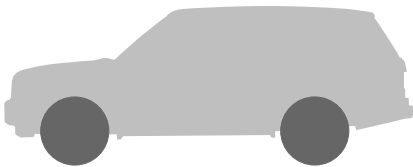
WARNING

If the vehicle has been parked in strong sunlight or used in high ambient temperatures, do not reduce tire pressures; instead, move the vehicle into the shade and allow the tires to cool before checking.

A hot tire at or below recommended cold inflation pressure is dangerously under-inflated.

Wheels and Tires

Accessory wheels and tires - insert details



1 _____ 2 _____

3 _____

- 1. Front tire pressure.
- 2. Rear tire pressure.
- 3. Wheel/tire size, type and specification

Note: Accessory fit off-road tires (with a speed rating of Q or T) are subject to speed restrictions. Q-rated tires should not be used at speeds greater than 100 mph (160 km/h), T-rated tires should not be used at speeds greater than 118 mph (190 km/h).

LAN0518G

Weights

WEIGHTS

Approximate curb weights (with full fuel tank);	5 710 - 5 908 lb (2 590 - 2 680 kg)
Maximum Gross Vehicle Weight (GVW)	7 055 lb (3 200 kg)
Maximum front axle load	3 373 lb (1 530 kg)
Maximum rear axle load	4 079 lb (1 850 kg)
Maximum roof rack load	220 lb (100 kg)

Note: Axle weights are non-additive; i.e. maximum GVW is not calculated by adding together maximum front and rear axle loads. The above individual maximum axle weights and gross vehicle weight must not be exceeded, except when towing.

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.

TOWING

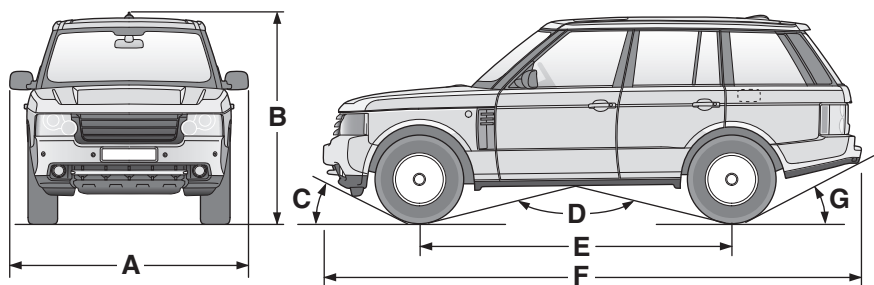
Maximum trailer weight:	
Unbraked trailer	1 653 lb (750 kg)
Trailer with over-run brakes	7 716 lb (3 500 kg)
Maximum tow hitch load (Nose weight):	
	330 lb (150 kg)

Note: To increase stability when loading to the maximum trailer weight, it is advised that trailer load distribution is adjusted to achieve the recommended nose weight. See **TOWING** (page 173).

Note: For trailers with over-run brakes only, if a greater nose weight is necessary, the recommended 330 lb (150 kg) can be increased up to a maximum of 550 lb (250 kg) total nose weight. However, vehicle payload **must be restricted** by at least the same weight to ensure that the GVW and rear axle load are not exceeded.

Dimensions

VEHICLE DIMENSIONS



LAN1954

A	Overall width	2 216 mm	87.2 in
	Overall width (mirrors folded)	2 034 mm	80.1 in
B	Overall height		
	- Access height	1 837 mm	72.3 in
	- Freeway height	1 857mm	73.1 in
	- Standard height	1 878 mm	73.9 in
	- Off-road height	1 932 mm	76.1 in
E	Wheelbase	2 880 mm	113.4 in
F	Overall length	4 967 mm	195.6 in
	Overall length (including tow hitch - to center of tow ball)	5 015 mm	197.4 in
	Track: - Front	1 629 mm	64.1 in
	Track: - Rear	1 625 mm	64.0 in
	Brake pedal free travel	No adjustable free travel	
	Turning circle	12 metres	39.4 feet

Wheel alignment (minutes):	V8 NA Petrol	V8 SC Petrol
- Front	0	-9
- Rear	+18	+12

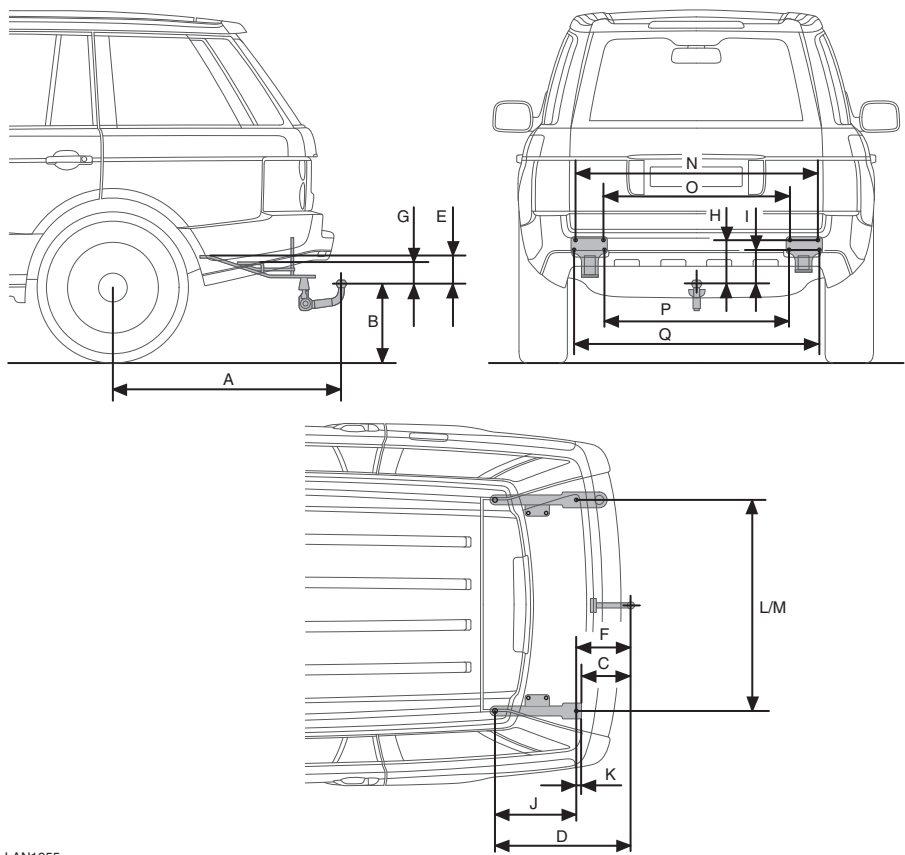
Off road performance

Dimensions

C	Approach angle - Off-road ride height (at curb weight): - Standard ride height - Off-road ride height	29 degrees 34 degrees	
D	Breakover angle (at curb weight): - Standard ride height - Off-road ride height	131 degrees 120 degrees	
G	Departure angle without tow hitch (at curb weight) - Standard ride height - Off-road ride height	24.2 degrees 26.6 degrees	
	Departure angle with tow hitch (at curb weight): - Standard ride height - Off-road ride height	13.6 degrees 16.0 degrees	
	Wading depth	700 mm	27.6 in
	Minimum ground clearance (off-road height)	283 mm	11.1 in

Dimensions

TOW BAR DIMENSIONS



LAN1955

Note: Dimensions refer to towing equipment officially released by Land Rover.

A	Wheel center to center of towball	1 235 mm	48.62 in
B	Ground to center of towball	397 mm	15.63 in
C	center of outer attachment points to center of towball	252.7 mm	9.95 in
D	center of rear inner attachment points to center of towball (horizontal)	713.5 mm	28.09 in

Dimensions

E	center of rear inner attachment points to center of towball (vertical)	152.7 mm	6.01 in
F	center of inner attachments to center of towball (horizontal)	286 mm	11.26 in
G	center of inner attachments to center of towball (vertical)	138.2 mm	5.44 in
H	center of outer No. 1, 2 attachments to center of towball	236.4 mm	9.31 in
I	center of outer No. 3, 4 attachments to center of towball	184.2 mm	7.25 in
J	Rear inner attachments to inner attachments	427.5 mm	16.83 in
K	Inner attachments to outer attachments	33.3 mm	1.31 in
L	Distance between the rear inner attachments	1 092 mm	42.99 in
M	Distance between the inner attachments	1 092 mm	42.99 in
N	Distance between the outer No. 1 attachments	1 230.6 mm	48.45 in
O	Distance between the outer No. 2 attachments	953.4 mm	37.55 in
P	Distance between the outer No. 3 attachments	940 mm	37.01 in
Q	Distance between the outer No. 4 attachments	1 244 mm	48.98 in

Note: Dimensions refer to towing equipment officially released by Land Rover.