

GENERAL SPECIFICATION DATA

V8 ENGINE

ENGINE

Type.....	V8
Number of cylinders.....	Eight, two banks of four
Bore.....	88.90 mm (3.500 in)
Stroke.....	71.12 mm (2.800 in)
Capacity.....	3528 cc (215 in ³)
Valve operation.....	Overhead by push-rod

Fuel-injection models

Maximum power—bhp—9.35 :1.....	165	} at 4750 rev/min
Maximum power—bhp—8.13 :1.....	150	
Maximum torque—9.35 :1.....	206 lbf.ft. (279 Nm)	at 3200 rev/min
Maximum torque—8.13 :1.....	190 lbf.ft. (258 Nm)	at 2500 rev/min

Carburettor models

Maximum power—bhp—9.35 :1.....	127 at 4000 rev/min	} at 2500 rev/min
Maximum power—bhp—8.13 :1.....	132 at 5000 rev/min	
Maximum torque—9.35 :1.....	194 lbf.ft. (263 Nm)	
Maximum torque—8.13 :1.....	185 lbf.ft. (251 Nm)	

Main bearings

Number and type.....	5 Vandervell shells
Material.....	Lead-indium

Connecting rods

Type.....	Horizontally split big-end, plain small-end
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Big-end bearings

Number and type.....	8 Vandervell VP shells
Material.....	Lead-indium

Gudgeon pins

Type.....	Press fit in connecting rod. Clearance on piston
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Pistons

Type.....	Aluminium alloy, concave crown
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Camshaft

Location.....	Central
Number of bearings.....	5
Bearings.....	Non-serviceable

Tappets

.....	Hydraulic—self-adjusting
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Lubrication

System type.....	Wet sump, pressure fed
Oil pump type.....	Gear
Oil filter.....	Full flow, self-contained cartridge

Cooling system

Type.....	Pressurised spill-return system with thermostat control, pump and fan assisted
Type of pump.....	Centrifugal

Fuel system—carburettor

8.13 :1, 9.35 :1 Emission controlled	2 × Solex 175 CDSE
8.13 :1 Non emission	2 × Solex 175 CD3
Fuel pump	AC Delco—low pressure (electrical), immersed in the fuel tank
Fuel filter	AC Delco CD600, element ACD60

Fuel system—fuel injection

Type	Lucas 'L' system electronically controlled
Fuel pump—make and type	AC Delco—high pressure (electrical), immersed in the fuel tank
Fuel filter—make and type	Bosch in-line filter, cannister type

TRANSMISSION**Clutch**

Make and type	Borg & Beck, diaphragm type
Clutch plate diameter	266.5 mm (10.5 in)

Gearbox

Model	LT77 (manual)
Type	Five speed, single helical constant mesh with synchromesh on all forward gears

Gearbox

Model	ZF 4HP22 (automatic)
Type	Automatic four speed and reverse, epicyclic gearbox with fluid torque converter and lock up

Transfer gearbox

Model	LT230T
Type	Two-speed reduction on gearbox output, front and rear drive permanently engaged via a lockable differential

Propellor shafts

Type	Open type 50.8 mm (2 in) diameter
Universal joints	03EHD standard shafts

Rear axle

Type	Spiral bevel, fully floating shafts
Ratio	3.54 :1

Front axle

Type	Spiral bevel enclosed constant velocity joints
Ratio	3.54 :1

SUSPENSION

Front	Coil springs, radius arms and panhard rod
Rear	Coil springs, radius arms, 'A' frame location arms with 'Boge' hydromat self-energising levelling device

Shock absorbers

Type	Telescopic, double acting—non adjustable
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STEERING

Power assisted type	Adwest varamatic
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BRAKES**Foot Brake**

Type..... Disc
 Operation..... Hydraulic, servo assisted, self adjusting

Front Brake

Type..... Outboard discs with four piston calipers
 Pad wear indicator Right-hand caliper, inboard pad

Rear Brake

Type..... Outboard disc with two piston calipers
 Pad wear indicator Left-hand caliper, inboard pad

Transmission Brake

Type..... Mechanical-cable operated drum brake on the rear of the transfer gearbox output shaft

WHEELS AND TYRES

Type and size Steel 6.00 JK × 16 (tubed)
 Alloy 7.00 J × 16 (tubed or tubeless)
 Tyre size 205 R16 or 215/75 R16

NOTE: Fuel injection vehicles must be fitted with 'S' rated high speed tyres.

ELECTRICAL EQUIPMENT

System 12 volt negative earth
 Fuses..... 'Autofuse' (blade type)
 Blow ratings to suit individual circuits

Battery

Make Chloride maintenance free
 Type..... 9 plate 210/85/90
 13 plate 380/120/90

Starter Motor

Make and type Lucas 3M100 pre-engaged

Alternator

Make and type Lucas 133/65

Wiper Motor

Make and type Front—Lucas 28W 2-speed
 Rear—Lucas 14W PM

Horns

Make and type Klamix (Mixo) TR99

Distributor

Make and type Lucas 35DM8 electronic

Ignition Module

Make and type Lucas 2CE 12 volt electronic

Airflow Meter

Make and type Lucas 2AM
Serial number 73243A

Injectors

Make and type Lucas 6NJ
Serial number 73178A

Electronic Control Unit

Make and type Lucas 4CU
Serial number 84477A

Power Resistor Pack

Make and type 2PR
Serial number 73184A

VEHICLE DIMENSIONS

Overall length	4.45 m (175 in)
Overall width	1.82 m (71.6 in)
Overall height	1.90 m (74.8 in)
Wheelbase	2.54 m (100 in)
Track: front and rear	1.49 m (58.5 in)
Ground clearance: under differential	190 mm (7.5 in)
Turning circle	11.89 m (39 ft)
Loading height	686 mm (27 in)
Maximum cargo height	1.01 m (40 in)
Rear opening height	1.01 m (40 in)
Usable luggage capacity, rear seat folded.....	2.00 m ³ (70 ft ³)
Usable luggage capacity, rear seat in use:	
—four door vehicles	1.25 m ³ (44.14 ft ³)
—two door vehicles.....	1.17 m ³ (41.31 ft ³)
Maximum roof rack load	75 kg (165 lb)

VEHICLE WEIGHTS AND PAYLOAD

When loading a vehicle to its maximum (Gross Vehicle Weight), consideration must be taken of the unladen vehicle weight and the distribution of the payload to ensure that axle loadings do not exceed the permitted maximum values.

It is the customer's responsibility to limit the vehicle's payload in an appropriate manner such that neither maximum axle loads nor Gross Vehicle Weight are exceeded.

Range Rover	Manual			Automatic		
Model	Front Axle kg (lb)	Rear Axle kg (lb)	Total kg (lb)	Front kg (lb)	Rear kg (lb)	Total kg (lb)
2 DOOR Unladen Weight	893 (1969)	867 (1911)	1760 (3880)	920 (2028)	871 (1920)	1791 (3948)
EEC Kerb Weight	912 (2011)	983 (2167)	1895 (4178)	939 (2070)	987 (2176)	1926 (4246)
Gross Vehicle Weight	1100 (2425)	1510 (3329)	2510 (5534)	1100 (2425)	1510 (3329)	2510 (5534)
4 DOOR Unladen Weight	909 (2004)	883 (1947)	1792 (3951)	925 (2039)	911 (2008)	1836 (4048)
EEC Kerb Weight	928 (2046)	999 (2202)	1927 (4248)	944 (2081)	1027 (2264)	1971 (4345)
Gross Vehicle Weight	1100 (2425)	1510 (3329)	2510 (5534)	1100 (2425)	1510 (3329)	2510 (5534)

Note: UNLADEN WEIGHT is the minimum vehicle specification, excluding fuel and driver.

EEC KERB WEIGHT is the minimum vehicle specification, plus full fuel tank and 75 kg (165 lb) driver.

GROSS VEHICLE WEIGHT is the maximum all-up weight of the vehicle including driver, passengers, payload and equipment. This figure is liable to vary according to legal requirements in certain countries.

Maximum permissible towed weights

	On-road	Off-road
Trailers without brakes	750 kg 1650 lb	750 kg 1650 lb
Trailers with overrun brakes	3500 kg 7700 lb	1000 kg 2200 lb
4-wheel trailers with continuous or semi-continuous brakes, i.e. coupled brakes	4000 kg 8800 lb	1000 kg 2200 lb

NOTE: It is the Owner's responsibility to ensure that all regulations with regard to towing are complied with. This applies also when towing abroad. All relevant information should be obtained from the appropriate motoring organisation.

Tyre Pressures

Pressures: Check with tyres cold

Normal on- and off-road use. All speeds and loads			Off-road 'emergency' soft use maximum speed of 40 kph (25 mph)		
	Front	Rear		Front	Rear
bars	1,9	2,4	bars	1,1	1,6
lbf/in ²	28	35	lbf/in ²	16	23
kgf/cm ²	2,0	2,5	kgf/cm ²	1,1	1,6

For extra ride comfort rear tyre pressures may be reduced to 2,1 bars (31 lbf/in²) 2,2 kgf/cm² when the rear axle weight does not exceed 1250 kg (2755 lb).

These pressures may be increased for rough off-road usage where the risk of tyre cutting or penetration is more likely.

Pressures may also be increased for high speed motoring near the vehicle's maximum speed. Any such increase in pressures may be up to an absolute maximum pressure of 2,9 bars (42 lbf/in²) 3,0 kgf/cm².

Normal operating pressures should be restored as soon as reasonable road conditions or hard ground is reached.

After any usage off the road, tyres and wheels should be inspected for damage particularly if high cruising speeds are subsequently to be used.

Towing: When the vehicle is used for towing, the reduced rear tyre pressures for extra ride comfort are not applicable.

WARNING: Wheels and tyres. Unless both wheel rim and tyre are marked 'TUBELESS', an inner tube MUST be fitted.

