



**109"
WHEELBASE
1-TON**

FOR EXTRA HEAVY DUTY

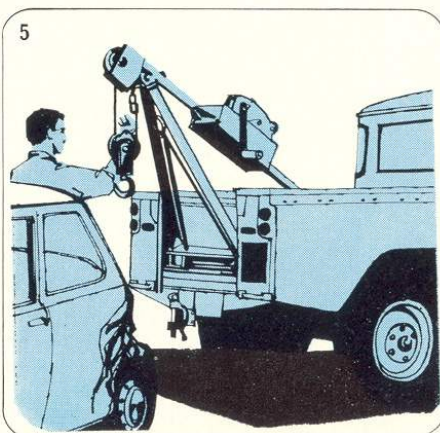
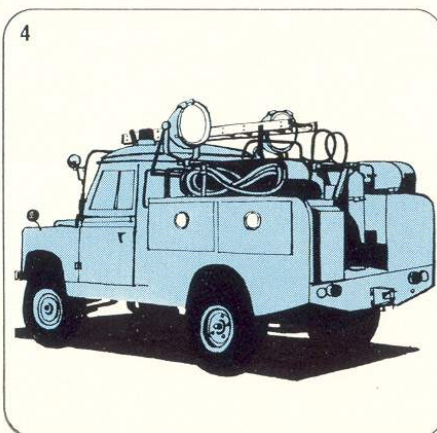
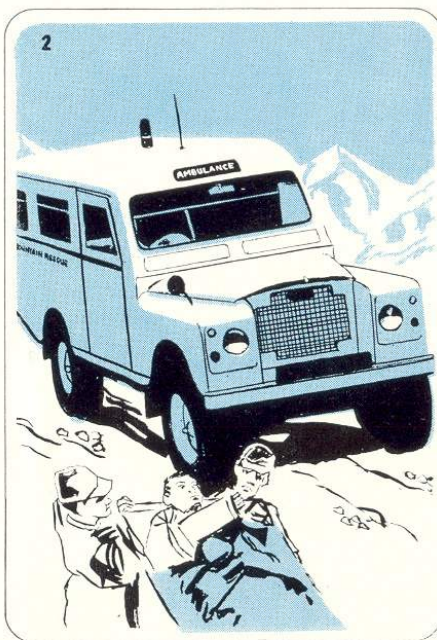
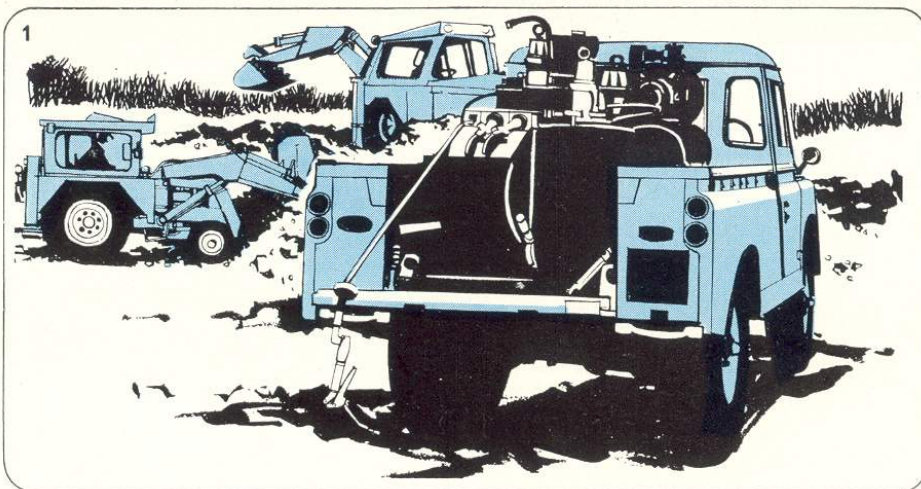
Powered by the 6-cylinder, 2.6 Litre petrol engine, the 109" wheelbase 1-Ton Land-Rover supplements the already extensive range of Land-Rover vehicles and it has been developed to meet the demands of operators who require a greater load-carrying capacity than is offered by the normal 109" Land-Rover.

With an increase of a $\frac{1}{4}$ -ton in cross-country payload capacity the 1-Ton Land-Rover is, of course, equipped with a more rugged specification. Features include heavy-duty axles and suspension, servo-assisted brakes that ensure an ample safety margin under all conditions, larger tyres to cope with load increase and to induce greater floatation on soft ground and a lower-ratio steering box. To minimise any steering wheel reaction which may be encountered over rough terrain, a hydraulic steering damper is fitted as standard.

Low speed performance is maintained by the use of lower transfer box ratios, whilst a maximum speed in top gear of over 60 m.p.h. is still attainable for normal road use.

The introduction of this 1-Ton model has added to the already wide-ranging character of the Land-Rover and makes it more than ever, the world's most versatile vehicle.





The illustrations on this page provide a few examples of the applications for which the 1-Ton Land-Rover can be adapted by the fitting of special bodies and the mounting of approved equipment.

1. The provision of lubrication services, for expensive construction equipment operating "off-highway", presents no difficulty with a 1-Ton Land-Rover.

2. A large range of conversions, from complete bodies to adaptations of the production vehicle bodywork, are available for most specialised operations and include interior equipment to customer requirements.

3. A stake body conversion can be supplied for transporting animals or bulky loads.

4. The 1-Ton Land-Rover makes an outstanding fire tender, capable of reaching outbreaks over difficult terrain, and in confined areas that are usually inaccessible to larger appliances.

5. Land-Rovers are used for vehicle recovery the world over. By virtue of its additional strength, the 1-Ton model is ideally suited to this type of work.

The heavy-duty specification of the 1-Ton Land-Rover is purpose-built for the accommodation of special bodies and conversions by approved manufacturers who, hitherto, may have been restricted in their designs because of excess weight problems. In addition, the vehicle will be found particularly useful by contractors, commercial fleet users, public authorities, farmers and other operators, who often need a greater "off-the-road" payload capacity than is available with the normal Long Wheelbase Land-Rover.



The vehicle provides an effective base on which to mount an hydraulically operated lift-platform. This type of equipment is in current use with many civic authorities for high-level maintenance tasks.

As is common with the Land-Rover range, the 1-Ton model has provision for various power take-off facilities which considerably increase the vehicle's operational possibilities. The equipment may be supplied at extra cost and enables a wide range of installed, towed or standing machinery to be driven. A comprehensive range of optional equipment is also available.

Technical queries concerning the fitting and use of power take-off equipment should be addressed to the Land-Rover Special Projects Department at Solihull.

SPECIFICATION

ENGINE

No. of cylinders	.. 6.
Bore	.. 3.063" (77.8 mm.).
Stroke	.. 3.625" (92.075 mm.).
Capacity	.. 2,625 c.c. (160.3 cu. ins.).
Valve position	.. Overhead inlet, inclined side exhaust.
Compression ratio	7.8 : 1 (7.0 : 1 optional).
Max. B.H.P.	.. 95 at 4,500 rev./min. (Gross).
Max. torque	.. 134 lb. ft. (18.5 Kgm.) at 1,750 rev./min. (Gross).

LUBRICATION SYSTEM

Type	.. Pressurised by submerged gear type pump.
Filters	.. Pump intake gauze filter in sump and external full flow filter.
Sump capacity	.. 12 pints (14.5 U.S. pints; 7 litres).

COOLING SYSTEM

Type	.. Semi-sealed and pressurised, with pump, fan and thermostat.
Capacity	.. 20 pints (24 U.S. pints; 11.4 litres).

FUEL SYSTEM

Carburettor	.. Zenith 175-CD2S.
Filters	.. Tank, sediment bowl and fuel pump.
Air cleaner	.. Oil bath with built-in centrifugal pre-cleaner.
Pump	.. Electric, dual inlet type, located inside right-hand frame side member.

ELECTRICAL SYSTEM

Ignition	.. By coil and distributor.
Starter	.. Solenoid operated by combined ignition/starter switch key.

TRANSMISSION

CLUTCH	
Type	.. Single dry plate, 9½" (241 mm.) dia. Diaphragm spring type.
Operation	.. Hydraulic.

MAIN GEARBOX

Type	.. Single helical constant mesh with synchromesh on top and third speeds.
Oil capacity	.. 2½ pints (3 U.S. pints; 1.4 litres).

TRANSFER GEARBOX

Type	.. Two speed reduction on main gearbox output.
Four wheel drive	.. Two/four wheel drive control on transfer box output.
Oil capacity	.. 4½ pints (5½ U.S. pints; 2.5 litres).

PROPELLER SHAFTS

Type	.. Open, to front and rear axles.
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REAR AXLE

Type	.. Spiral bevel; floating shafts.
Ratio	.. 4.7 : 1.
Oil capacity	.. 2½ pints (3 U.S. pints; 1.4 litres).

FRONT AXLE

Type	.. Spiral bevel; floating shafts.
Ratio	.. 4.7 : 1.
Oil capacity	.. Differential 2½ pints (3 U.S. pints; 1.4 litres). Universal joint housing, 1 pint (1½ U.S. pints; 0.57 litres).

OVERALL RATIOS (Final Drive)

	High Transfer	Low Transfer
Top	.. 7.19 : 1	15.4 : 1
Third	.. 10.86 : 1	23.1 : 1
Second	.. 15.96 : 1	34.1 : 1
First	.. 25.9 : 1	55.3 : 1
Reverse	.. 21.7 : 1	46.4 : 1

POWER TAKE-OFF POINTS

Central, bottom and rear power take-off drives available as optional extras.

CHASSIS DETAILS

FRAME	
Type	.. Welded fabricated box section side and cross members, black enamel dipped.
Front bumper	.. Channel section, galvanised.

SUSPENSION

Road springs	.. Semi-elliptic, underslung.
Shock absorbers	.. Hydraulic double acting telescopic.

STEERING

Type	.. Recirculating ball, worm and nut, Hydraulic damper. Steering wheel diameter—17" (43.18 cm.). Turning circle—47 ft. (14.3 m.) diameter. No. of turns lock to lock—3½.
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BRAKES

Foot brake	.. Hydraulic drum brakes, 11" dia., servo assisted. Front: two leading shoes, 3" wide.
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Hand brake

.. Mechanical internal expanding drum brake on transfer box output.

WHEELS AND TYRES

Wheel type	.. Ventilated disc.
Wheel size	.. 6.50" L x 16".
Standard tyre and tube size	.. 9.00" x 16".
Standard tread	.. Dual-purpose (road and cross-country).

FUEL SYSTEM

Fuel tank	.. Carried between side members behind rear axle. Fitted with protective underplate and telescopic external filler tube.
Capacity	.. 11 gallons (13.2 U.S. gallons; 50 litres).

CHASSIS OPTIONAL EQUIPMENT

Includes extra instruments, 12 volt alternator, winches, towing equipment, special protective devices, and special purpose tyres. See separate publication for details.

ELECTRICAL EQUIPMENT AND INSTRUMENTATION

ELECTRICAL SYSTEM

Type	.. Negative earth.
Voltage	.. 12 volt.

ELECTRICAL EQUIPMENT

Battery	.. 58 A.H.
Generator	.. Fan ventilated dynamo, 30 amperes output. Current-voltage control.
Windscreen wiper	.. Dual arm. Self-parking.
Horn	.. Windtone. Horn push in centre of steering wheel.

INSTRUMENTS AND CONTROLS

Speedometer	.. Large diameter with total mileage recorder including oil pressure, headlamp main beam and cold start warning lights.
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Water temperature and fuel gauges

.. Combined in one large dial which also includes the charging warning light.

Panel light

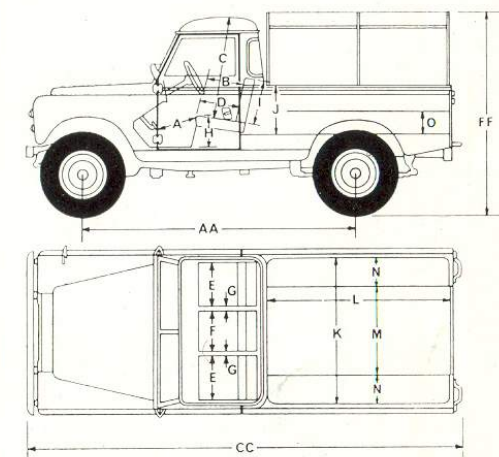
.. Illuminating speedometer, water temperature and fuel gauges. Switch operates when side and tail lamps are "on". Ignition switch operated by key. Toggle switch for head, side and tail lamps.

Ignition warning light: red.
Choke warning light: amber. Oil pressure warning light: green. Headlamp main beam warning light: blue.
Lighting .. Headlamps — mounted in front wings.
Side-lamps — mounted in front wings.

WEIGHTS

	Front Axle lb. (kg.)	Rear Axle lb. (kg.)	Total
Unladen, plus 5 galls. fuel	2088 (947)	1798 (816)	3886 (1763)
Max. allowance gross weight	2550 (1157)	4200 (1905)	6750 (3062)

DIMENSIONS



		Ins.	Metres
AA	Wheelbase	109.00	2.768
	Track	53.50	1.357
CC	Overall length	175.00	4.441
	Overall width (over hinges)	66.00	1.676
	Overall height of cab	82.50	2.093
FF	Overall height with hood	84.00	2.132
	Ground clearance	8.75	0.223
A	Front cushion to accelerator pedal	17.25	0.438
B	Front squab to steering wheel	14.50	0.369
C	Headroom front seat (uncomp.)	39.00	0.991
D	Front to rear of front cushion	16.00	0.406
E	Width of front cushion	18.00	0.457
F	Width of front centre cushion	15.00	0.381
G	Width between front seats	1.00	0.025
H	Top of front cushion to floor	14.50	0.368
I	Front squab height	17.00	0.431
J	Height of body sides	19.00	0.483
K	Width of body interior	56.87	1.444
L	Length of body interior	72.75	1.850
M	Interior body width between wheel boxes	36.25	0.921
N	Width of wheel boxes	13.75	0.349
O	Height of wheel boxes	9.00	0.229

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