

Bulletin
Number 5012

Issue 2

Date 24/11/48

Sheet 1 of 4 Sheets

MODELS AFFECTED
1948 LAND-ROVER

UNIT AFFECTED
SPECIFICATION

COMPLAINT

SUBJECT

BRIEF TECHNICAL SPECIFICATION

Vehicle numbers	R860001 and L860001 onwards
Number of cylinders	4
Bore	69.5 mm. (2.736 in.)
Stroke	105 mm. (4.102 in.)
Cylinder capacity	1595 c.c. (97.34 cu. in.)
Compression ratio	6.8 — 1
R.A.C. rating	11.98 h.p.
B.H.P.	50 — 55 at 4,000 r.p.m.
Maximum torque	80 lbs./ft. (11 kgm.) at 2,000 r.p.m.
Crankshaft, number of bearings	3
Pistons, number of compression rings	2
Pistons, number of scraper rings	2
Camshaft, number of bearings	4
Firing order	1, 3, 4, 2
Valve seat angle	Inlet 30° Exhaust 45°
Tappet clearance	Inlet .010 in. (0,25 mm.) cold Exhaust .012 in. (0,30 mm.) cold
Inlet valve opens	9° BTDC
Contact breaker gap	.012 in. (0,30 mm.)
Ignition control	Octane selector, mechanical governor and vacuum control

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Ignition timing	15° B.T.D.C.																												
Sparking plug	Lodge HL14P or HLNR																												
Sparking plug gap	.023 in. (0,60 mm.) to .026 in. (0,65 mm.)																												
Carburettor	Solex 32 PBI2																												
Air cleaner	A.C. Oil-bath																												
Sump capacity	10 pints (5,5 litres)																												
Water capacity	17 pints (9,75 litres)																												
Clutch	Single plate																												
Main Gearbox	Synchro-mesh on third and top																												
Main Gearbox capacity	4 pints (2,25 litres)																												
Transfer box capacity	6 pints (3,5 litres)																												
	<table border="1"> <thead> <tr> <th colspan="2">High transfer</th> <th colspan="2">Low transfer</th> </tr> <tr> <th>A (4.88 ratio)</th> <th>B (4.7 ratio)</th> <th>A (4.88 ratio)</th> <th>B (4.7 ratio)</th> </tr> </thead> <tbody> <tr> <td>5.612—1</td> <td>5.396—1</td> <td>14.122—1</td> <td>13.578—1</td> </tr> <tr> <td>8.362—1</td> <td>8.039—1</td> <td>21.042—1</td> <td>20.229—1</td> </tr> <tr> <td>11.466—1</td> <td>11.023—1</td> <td>28.852—1</td> <td>27.738—1</td> </tr> <tr> <td>16.814—1</td> <td>16.165—1</td> <td>42.310—1</td> <td>40.676—1</td> </tr> <tr> <td>14.295—1</td> <td>13.743—1</td> <td>35.970—1</td> <td>34.581—1</td> </tr> </tbody> </table>	High transfer		Low transfer		A (4.88 ratio)	B (4.7 ratio)	A (4.88 ratio)	B (4.7 ratio)	5.612—1	5.396—1	14.122—1	13.578—1	8.362—1	8.039—1	21.042—1	20.229—1	11.466—1	11.023—1	28.852—1	27.738—1	16.814—1	16.165—1	42.310—1	40.676—1	14.295—1	13.743—1	35.970—1	34.581—1
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Overall Gear ratio, top																													
" " " third																													
" " " second																													
" " " first																													
" " " reverse																													
Propeller shafts	Hardy-Spicer, open																												
Rear axle	Semi-floating. Ratio 4.7—1(4.88—1 for vehicles up to R & L 861000)																												
Front axle	Drive transmitted through Tracta joints. Ratio 4.7—1 (4.88—1 for vehicles up to R & L 861000)																												
Differential capacities	3 pints (1,75 litre)																												

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Tracta joint capacity	1 pint (0,50 litre)
Final drives	Spiral bevel
Wheel brakes	Girling Hydro-Static
Transmission brake	Girling Mechanical
Brake drums	10 in. (254 mm.)
Steering	Burman worm and nut
Camber angle	1½°
Caster angle	3°
Swivel pin inclination	7°
Toe-in	3/64 in. to 3/32 in. (1, 2 to 2, 4 mm.)
Track	50 in. (1,27 m.)
Turning circle	35 ft. (10.50 m.) with 6.00/16 tyres. 40 ft. (12 m.) with 7.00/16 tyres.
Tyre size	16 x 6.00 "Traction" or 16 x 7.00 "Super-Traction"
Tyre pressure	22 to 24 lbs./sq. in. (1,5 to 1,7 kg./sq. cm.)
Shock absorbers	Woodhead-Monroe
Ignition	Coil and battery
Voltage	12 volts
Battery	Lucas 51 A.H.
Charging circuit	C.V.C.
Petrol pump	S.U. Electrical

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Bulletin
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Issue 1

Date 16/6/48

Sheet 4 of 4 Sheets

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BRIEF TECHNICAL SPECIFICATION

Petrol capacity	10 galls. (45 litres)
Wheelbase	80 in. (2,03 m.)
Overall length	132 in. (3,35 m.)
Overall height—hood up	70½ (1,79 m.)
" " —hood down, screen up	65½ (1,66 m.)
" " —hood down, screen down	53 in. (1,35 m.)
Overall width	61 in. (1,55 m.)
Ground clearance	8½ in. (21,6 cm.)
Weight—running (with water, oil and fuel)	23 cwt. (1.170 kg.)
—maximum approved gross loaded	33 cwt. (1.675 kg.)
Maximum approved pay load	1000 lbs. (450 kg.)
Maximum draw-bar pull (according to surface conditions)	1200 to 2000 lbs. (550 to 900 kg.)

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