

Issue 2

Date 12/3/51

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MODELS AFFECTED
1950 LAND-ROVER

UNIT AFFECTED
SPECIFICATION

TECHNICAL SPECIFICATION

Vehicle numbers	...	...	...	...	R06100001, L06100001, R06200001, L06200001, R06300001 and L06300001 onwards.
Number of cylinders	...	...	...	...	4
Bore	...	...	...	...	69.5 mm. (2.736 in.)
Stroke	...	...	...	...	105 mm. (4.134 in.)
Cylinder capacity	...	...	...	...	1595 c.c. (97.34 cu. in.)
R.A.C. rating	...	...	...	...	11.98 H.P.
Compression ratio	...	...	...	...	6.8—1
Compression pressure (at cranking speed)	...	...	...	...	140 lbs./sq. in. (9.8 Kgs/cm ² .)
Brake horse-power...	...	...	...	...	50-55 at 4,000 R.P.M.
Maximum torque	...	...	...	...	80 lbs./ft. (11 mKg.) at 2000 R.P.M.
Firing order	...	...	...	...	1, 3, 4, 2
Crankshaft, number of bearing	...	...	...	...	3
Main bearings, type	...	...	...	...	Detachable steel shell, white metal lined
Minimum diameter for regrinding main journals	...	...	...	...	.040 in. undersize
Connecting rod bearings, type	...	...	...	...	Detachable steel shell, white metal lined
Minimum diameter for regrinding crankpin journals	...	...	...	...	.040 in. undersize
Pistons, number of compression rings	...	...	...	...	2
Pistons, number of scraper rings	...	...	...	...	2
Maximum diameter for boring	...	...	...	...	.040 in. oversize
Camshaft, number of bearings	...	...	...	...	4
Camshaft drive	...	...	...	...	Pre-stretched endless duplex chain with hydraulic tensioner
Valve seat angle	...	...	...	...	Inlet 30°; exhaust 45°
Tappet clearance (cold or at running temperature)	...	...	...	...	Inlet: .010 in. (0.25 mm.); exhaust: .012 in. (0.30 mm.)
Inlet valve opens	...	...	...	...	9° before T.D.C.
Valve timing	...	...	...	...	Exhaust peak (No. 1 cylinder) 114° before T.D.C.
Contact breaker gap	...	...	...	...	.014 to .016 in. (0.35 to 0.40 mm.)
Ignition control	...	...	...	...	Octane selector, mechanical governor and vacuum control
Ignition timing	...	...	...	...	15° before T.D.C.
Sparking plugs	...	...	...	...	Lodge HLNR
Sparking plug gap...	...	...	...	...	.023—.026 in. (0.60—0.65 mm.)
Carburettor	...	...	...	...	Solex 32 PBI2
Air cleaner	...	...	...	...	AC oil-bath
Oil pressure	...	...	...	...	35-40 lbs./sq. in at 30 m.p.h. (2.5—2.8 kgs/cm ² at 50 k.p.h.)
Sump capacity	...	...	...	...	10 pints (5.5 litres)
Cooling system capacity	...	...	...	...	17 pints (9.75 litres)
Clutch	...	...	...	...	Borg & Beck single plate 9 in. (230 mm.) diameter

Re-issued 12.3.51 to alter distributor contact breaker clearance.

This sheet replaces that already in your file dated 20.9.49, which should be removed and destroyed.

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Main gearbox	Single helical constant mesh with synchro-mesh on third and top speeds	
Main gearbox ratio, top	...	...	...	...	Direct	
" " " third	...	...	...	...	1.377—1	
" " " second	...	...	...	...	2.043—1	
" " " first	...	...	...	...	2.996—1	
" " " reverse	...	...	...	...	2.547—1	
Main gearbox oil capacity	...	...	...	...	4 pints (2,25 litres)	
Transfer box	...	...	...	...	2-speed gear in main gearbox output	
Transfer box ratio, high	...	...	...	...	1.148—1	
Transfer box ratio, low	...	...	...	...	2.888—1	
Transfer box oil capacity	...	...	...	...	6 pints (3,5 litres)	
					High transfer	Low transfer
Overall gear ratio, top	...	...	...	...	5.396—1	13.578—1
" " " third	...	...	...	...	7.430—1	18.697—1
" " " second	...	...	...	...	11.023—1	27.738—1
" " " first	...	...	...	...	16.165—1	40.676—1
" " " reverse	...	...	...	...	13.743—1	34.581—1
Propeller shafts	...	...	...	...	Hardy-Spicer, open	
Rear axle	...	...	...	...	Semi-floating	
Front axle	...	...	...	...	Drive transmitted through Tracta joints	
Final drives	...	...	...	...	Spiral bevel, 4.70—1	
Differential oil capacities	...	...	...	...	3 pints (1,75 litre)	
Tracta joint oil capacity	...	...	...	...	1 pint (0,5 litre)	
Wheel brakes	...	...	...	...	Girling hydraulic	
Transmission (hand) brake	...	...	...	...	Girling mechanical	
Brake drum diameter	...	...	...	...	10 in. (254 mm.)	
Suspension	...	...	...	...	Semi-elliptic leaf springs controlled by Woodhead-Monroe telescopic dampers	
Steering	...	...	...	...	Burman worm and nut	
Camber angle	...	...	...	...	1½°	
Caster angle	...	...	...	...	3°	
Swivel pin inclination	...	...	...	...	7°	
Toe-in	...	...	...	...	3/64—3/32 in. (1,2—2,4 mm.)	
Track	...	...	...	...	50 in. (1,27 m.)	
Turning circle	35 ft. (10,5 m.) with 6.00—16 tyres 40 ft. (12,2 m.) with 7.00—16 tyres.	
Tyre size	Dunlop 6.00—16 or 7.00—16	

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Tyre pressure, 6.00—16	Front		Rear	
	Lb./sq. in.	Kgs./cm ² .	Lb./sq. in.	Kgs./cm ² .
Normal road use (with load under 550 lbs. (250 Kg.))	20	1,40	26	1,80
Normal road use (with load over 550 lb. (250 Kg.) in rear)	20	1,40	30	2,10
Cross-country	15	1,05	20	1,40

Tyre pressure, 7.00—16	Front		Rear	
	Lb./sq. in.	Kgs./cm ² .	Lb./sq. in.	Kgs./cm ² .
Normal road use (with load under 550 lb. (250 Kg.))	20	1,40	26	1,80
Normal road use (with load over 550 lb. (250 Kg.) in rear)	20	1,40	30	2,10
Cross-country	13	0,90	18	1,25

Ignition	12 volt battery and coil
Distributor rotation	Clockwise at drive end
Battery	Lucas G.T.W.9A 51 A.H.
Charging circuit	C.V.C.
Petrol pump	S.U. electric
Petrol capacity	10 Imperial gallons (45 litres)
Wheelbase	80 in. (2,03 m.)
Overall length	132 in. (3,35 m.)
Overall height—hood up	70½ in. (1,79 m.)
Overall height—hood down, screen up	65½ in. (1,66 m.)
Overall height—hood down, screen down	53 in. (1,35 m.)
Overall width	61 in. (1,55 m.)
Ground clearance	8½ in. (216 mm.)
Weight—running (with water, oil and fuel)	2,594 lb. (1,170 Kg.)
Weight—maximum approved gross loaded	3,714 lb. (1,675 Kg.)
Maximum approved pay load	1,000 lb. (450 Kg.)
Maximum draw-bar pull (according to surface conditions)	1,200—2,000 lb. (550—900 Kg.)