

THE ROVER COMPANY LIMITED
SERVICE DEPARTMENT

SOLIHULL, BIRMINGHAM, England
Telephone Nos.: Sheldon 2461, 2613
Telegrams: Rovrepair, Solihull

Rover Service News Letter No. 47

August 31st, 1954

TO ALL DISTRIBUTORS AND DEALERS

SECTION 1 WORKSHOP AND SPARE PARTS INFORMATION

- Item 62 **SUBJECT:** Repair of "Butyl" synthetic rubber inner tubes.
MODELS: 1954 Car and Land-Rover.
PROCEDURE: "Butyl" inner tubes can be satisfactorily repaired by using good quality rubber tube cement and natural rubber patches, providing the repairs are vulcanised. The use of cold patches on "Butyl" inner tubes is not satisfactory.
REMARKS: The "Butyl" inner tubes can be identified as follows:—
Black tube with blue line or blue lettering.
Blue valve stem or blue line round valve stem.
- Item 63 **SUBJECT:** Battery connections.
MODELS: Car and Land-Rover.
COMPLAINT: Corroded and/or loose battery connections.
CAUSE: Corrosion due to overfilling the battery or acid leaking from loose terminal post. Loose connections due to faulty assembly.
CURE: Corrosion; rectify whichever fault is obvious.
Loose connections; always refit as detailed below:—
1. Clean terminal post and inside of the battery lug.
2. Fit lug to terminal post and lightly tap on to the taper of the post.
3. Smear vaseline or anti-corrosion grease in the hole for the retaining screw.
4. Replace screw taking care not to overtighten. On no account must the screw be used for pulling down the lug.
- Item 64 **SUBJECT:** Parts for reconditioning.
COMPLAINT: Spare parts being returned under our reconditioning scheme which are obviously unsuitable for repair or replacement.
REMARKS: Will all concerned please ensure that all items returned for reconditioning are examined for any obvious damage or faults; and are in a reasonably clean state.
- Item 65 **SUBJECT:** Dynamo.
MODELS: 1954 "75" and "90"
MODIFICATION: Commutator bearing lubricated by means of a disc in place of a wick.
PART No. Dynamo 1 263396.
COMM. No. Engines numbered:
"75" 44303873 onwards
"90" 45304681 onwards.
REMARKS: Interchangeable as a complete unit only.

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Item 66 **SUBJECT:** Accelerator levers.
MODELS: 1954 Land-Rover.
MODIFICATION: Material thickness altered to increase strength of levers.
PART Nos.: Accelerator lever, to carburettor 1 248091
Accelerator lever, pedal shaft 1 248092
COMM. Nos.: Vehicles numbered:
86. 47102451, 47133793, 47162487, 47630421 and 47662425 onwards.
107. 47200336, 47230976, 47261242, 47730079 and 47760245 onwards.
REMARKS: Early and late type interchangeable.

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S E R V I C E D E P A R T M E N T

SOLIHULL, BIRMINGHAM, England
 Telephone Nos.: Sheldon 2461, 2613
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Rover Service News Letter No. 47a

September 6th, 1954

TO ALL DISTRIBUTORS AND DEALERS

SECTION 1. WORKSHOP AND SPARE PARTS INFORMATION

Item 1 1955 LAND-ROVER 86 and 107 Various changes have taken place with the commencement of the 1955 Programme as listed below:—

ENGINE.

The engine has been redesigned in such a manner that it will not be interchangeable with any engine produced prior to the 1955 series commencing from Engines numbered 57100001 and 57130001 onwards. This new engine has been modified in the following way:

The cylinder bores have been relocated in the block to provide full water circulation around each bore instead of around each pair of bores as was formerly the case.

This alteration has been effected without any increase in the overall length of the cylinder block, but in order to avoid using off-set connecting rods it has been necessary to reduce the width of the connecting rod bearings and redesign the crankshaft to suit.

To off-set the reduced bearing area, we have changed from white metal to copper lead bearings, and this latter point has proved on test to increase bearing life very considerably in spite of the reduced area.

A full flow external oil filter is also fitted.

GEARBOX.

The gearbox assembly is no longer interchangeable with earlier Land-Rover gearboxes for the following reasons:—The spigot diameter on the bell housing is no longer used to line up the gearbox casing and bell housing, this is now achieved by using fitting bolts. The bell housing has also been redesigned to suit an outboard starter motor. Car type constant gears are now used, these are wider and are not interchangeable with the 1954 type, this also alters the layshaft sleeve. Car type sealing rings and retainers are used for the selector shafts.

Interchangeability of Parts:

It must be borne in mind that a number of parts are no longer interchangeable between 1954 and 1955 Land-Rover, but many of the new parts are identical with those used on the car engines, especially the model "60". Such parts are listed below:—

Cylinder block	....	....	....	....	....	As 1954 "60"
Crankshaft	....	....	....	....	....	As 1954 "60"
Main bearings	....	....	....	....	....	As 1954 "60"
Crankshaft oil retainer	....	....	....	....	....	As 1954 "60"
Connecting rods	....	....	....	....	....	As 1954 "60"
Connecting rod bearings	....	....	....	....	....	As 1954 "60"
Piston assemblies	....	....	....	....	....	As 1954 "60" (Interchangeable in sets)
Cylinder head gasket	....	....	....	....	....	As 1954 "60"
Oil relief valve screw and spring	....	....	....	....	....	As 1954 "60"
Crankcase sump	....	....	....	....	....	As 1954 "60"
Oil filter and fixings	....	....	....	....	....	As 1954 "60"
Starter motor	....	....	....	....	....	As 1954 Car
Flywheel housing	....	....	....	....	....	Altered to suit new starter
Flywheel	....	....	....	....	....	As 1954 Car.
Carburetter	....	....	....	....	....	(Air correction jet only)
Air cleaner and connection to carburetter.						

GEARBOX.

Gearbox casing	.....	.....	.....	.....	Altered to suit new sealing rings and fitting bolts for bell housing
Bell housing	.....	.....	.....	.....	To line up with new flywheel housing
Primary pinion and constant gear	}	.....	.....	.....	To use car type constant gear
Sleeve for layshaft					
Sealing rings for selector shafts	.....	.....	.....	.....	Car type

BODY.

Stop/tail lamp	.....	.....	.....	.....	New lighting regulations
Body and wheelarch	.....	.....	.....	.....	Minor modification to accommodate new stop/tail lamp
Front floor	}	.....	.....	.....	Minor alteration to give clearance for new starter motor. 1955 parts can be used on 1954 models.
Gearbox cover					

For a detailed list of part numbers of these new items see Sheet 2.

The technical specification, oil recommendations etc. for the 1955 Land-Rover are the same as for the 1954 model with the following exceptions:—

Vehicle commencing numbers:

	86		107
Basic Vehicle Home	57100001 onwards	Basic Vehicle Home	57200001 onwards
Basic Vehicle LHD Export	57130001 onwards	Basic Vehicle LHD Export	57230001 onwards
Basic Vehicle RHD Export	57160001 onwards	Basic Vehicle RHD Export	57260001 onwards
C.K.D. L.H.D. Export	57630001 onwards	C.K.D. L.H.D. Export	57730001 onwards
C.K.D. R.H.D. Export	57660001 onwards	C.K.D. R.H.D. Export	57760001 onwards
Main bearings, type	.....	.....	Detachable steel shell, Copper lead, lead tin plated
Connecting rod bearings, type	.....	.....	Detachable steel shell, Copper lead, lead tin plated
Crankshaft end-float	.....	.....	Thrust washers at centre bearing, available in different thicknesses.
Oil pressure	.....	.....	50 to 60 lbs./sq. in. (3, 5 to 4, 2 kg/cm ²) at 30 m.p.h. (50 k.p.h.) in top gear with engine warm.
Oil filter external	.....	.....	Full-flow filter.

The service instructions laid down for the 1954 Land-Rover are, in the main, applicable to the 1955 Series. Exceptions are listed below:—

Oil filter

The filter element of the full-flow filter must be renewed at regular intervals in the following manner:—

Unscrew the bolt in the bottom of the filter container and remove the container complete with the filter element. Remove and discard the used filter element and large rubber washer. Wash the container in petrol. Place the new filter element in the container and reassemble the unit, using the new large rubber washer supplied with the element. Ensure that all the sealing washers are in position and intact and that the container is correctly located in the top cover.

Refill with oil of the correct grade.

Run the engine for five minutes and check for oil leaks. Top up the engine oil level as necessary.

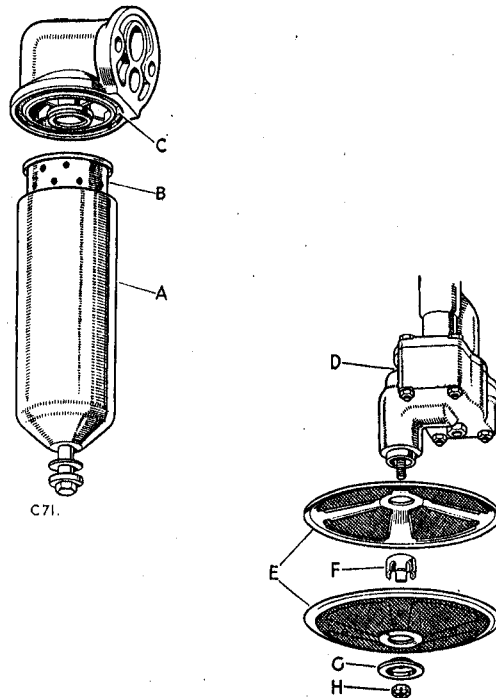
Air cleaner oil capacity. 1½ pints (0,85 litre).

TYRES.

“Butyl” synthetic inner tubes are fitted and pressures should only require to be checked *monthly*.

All repairs to “Butyl” synthetic inner tubes must be vulcanised.

Stop/tail lamp bulb replacement. Turn the bulb cover and glass to the left approximately 50° and withdraw from body.



Oil filter

NON-INTERCHANGEABLE PARTS BETWEEN THE 1954 LAND-ROVER 86 and 107 AND THE 1955 LAND-ROVER 86 and 107. THESE PARTS REPLACE SIMILAR ITEMS IN THE 1954 LAND-ROVER 86 and 107 SPARE PARTS CATALOGUE

* Denotes "fast moving" part.

Description	Qty.	Part No.	Remarks
Engine and clutch assembly	1	248358	
Cylinder block assembly	1	242570	
Cylinder block, crankshaft, pistons, camshaft and valve gear	1	244341	
Stud, short	2	09207	} For oil filter adaptor
Stud, long	2	241275	
Dowel locating bearing caps	11	240577	
Oil pipe, centre main bearing	1	241103	
Crankshaft assembly. STD.	1	241893	
Crankshaft assembly. .010" U.S.	1	243247	
Crankshaft assembly. .020" U.S.	1	243248	
Crankshaft assembly. .030" U.S.	1	243249	
Crankshaft assembly. .040" U.S.	1	243250	
Main bearing, front and rear. STD.	4	239829	} Halves
Main bearing, front and rear. .010" U.S.	4	239830	
Main bearing, front and rear. .020" U.S.	4	239831	
Main bearing, front and rear. .030" U.S.	4	239832	
Main bearing, front and rear. .040" U.S.	4	239833	
Main bearing, centre. STD.	2	239824	
Main bearing, centre. .010" U.S.	2	239825	
Main bearing, centre. .020" U.S.	2	239826	
Main bearing, centre. .030" U.S.	2	239827	
Main bearing, centre. .040" U.S.	2	239828	
Thrust washer for crankshaft. STD.	2	239839	
Thrust washer for crankshaft. .0025" O.S.	2	239840	
Thrust washer for crankshaft. .005" O.S.	2	239841	
Thrust washer for crankshaft. .0075" O.S.	2	239842	
Thrust washer for crankshaft. .010" O.S.	2	240386	
Crankshaft oil retainer	2	235935	
Dowel—lower	2	09209	} Fixing retainer to cylinder block and rear bearing cap
Dowel—upper	2	246464	
Connecting rod assembly	4	240650	
Connecting rod bearing halves. STD.	8	239834	
Connecting rod bearing halves. .010" U.S.	8	239835	
Connecting rod bearing halves. .020" U.S.	8	239836	
Connecting rod bearing halves. .030" U.S.	8	239837	
Connecting rod bearing halves. .040" U.S.	8	239838	
Piston assembly. STD.	4	246346	} As used on the 1954 "60". Interchangeable in sets.
Piston assembly. .010" O.S.	4	242576	
Piston assembly. .020" O.S.	4	242577	
Piston assembly. .030" O.S.	4	242578	
Piston assembly. .040" O.S.	4	242579	
Cylinder head gasket	1	240114*	
Oil pump assembly	1	240651	} As used on the 1954 "60"
Oil pump body assembly	1	242008	
Plunger	1	245940	} As used on the 1954 "60" and "90"
Spring	1	242648	
Adjusting screw	1	242889	
Special set screw. Fixing oil pump to cylinder block	1	241267	
Crankcase sump	1	246201	

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Description	Qty.	Part No.	Remarks
Oil filter for engine	1	240326	As used on the 1954 "60" and "90".
Element } For oil filter	1	246262*	
Gasket } Part of 240326	1 set	246261*	
Joint washer for oil filter	1	236288	
Bolt $\frac{7}{16}$ " whit x $1\frac{5}{32}$ " long	2	240328	
Adaptor for oil filter	1	241166	
Joint washer, top	1	241288	
Joint washer, bottom } For oil filter adaptor	1	241289	
Plug } For adaptor oil way	2	250978	
Joint washer } For adaptor oil way	2	231577	
Carburetter complete	1	264665	As used on the 1954 "60"
Correction jet. 240	1	260266	Interchangeable by changing air correction jet.
Starter motor complete	1	236287	As used on the 1954 "60" "75" and "90".
Bracket for starter commutator end	1	244706	
Bracket for drive end	1	244713	
Armature	1	244715	
Bush, commutator end	1	242958*	
Bush, pinion end	1	244714*	
Pinion and sleeve	1	244711*	
Spring for pinion	1	244712*	
Main spring for pinion	1	244710	
Nut for pinion	1	244709	
Field coil for starter	1	244716	
Brushes for starter motor set	2	260055*	
Spring set for brushes	1	244708*	
Bolt for bracket	2	244717	
Cover band	1	244705	
Grease cap	1	243095	
Sundry parts kit	1	244718*	
Flywheel housing assembly	1	246338		As used on the 1954 "60" "75" and "90".
Indicator for ignition timing	1	239820	
Flywheel assembly	1	239818	
Ring gear for flywheel	1	244346	
Gearbox complete assembly	1	248361	
Gearbox casing assembly	1	248667	
Bell housing assembly	1	248719	
Fitting bolt, fixing gearbox casing to bell housing	3	248720	
Primary pinion and constant gear	1	263569	
Sleeve for layshaft	1	263878	
Sealing ring, forward selector shaft	2	241596*	As used on the 1954 "60" "75" and "90".
Sealing ring, reverse selector shaft	1	241597*	
Retaining plate for sealing ring	2	241598	
Bottom plate for front spring L.H.	1	264022	
Bottom plate for front spring R.H.	1	264023	
Bottom plate for rear spring L.H.	1	264020	
Bottom plate for rear spring R.H.	1	264021	
Plain washer } Fixing bottom loop of shock absorber	4	264024	
Split pin } Fixing bottom loop of shock absorber	4	4063	
Air cleaner	1	263148		As used on the 1954 "60" "75" and "90".
Oil container, part of 263148	1	264777	
Connection, air cleaner to carburetter	1	263149	
Stop tail/lamp complete	2	248808*	
Bulb for stop/tail lamp	2	235727*	
Body and red lens	1	264779*	
White lens for number plate	1	264780*	
Seal for white lens	1	264781*	
Bulb holder interior	1	264782*	
Rubber for back plate seating	1	264783*	

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Description	Qty.	Part No.	Remarks
Stop/tail lamp	2	264350*	America Dollar Area.
Side and flasher lamp	2	234215*	
Bulb for side and flasher lamp	2	235727*	America Dollar Area and Station Wagon.
Flasher unit	1	232402*	
Warning light	1	264429	
Switch for flasher	1	264370	
Mounting plate for switch	1	264369	
Harness for flasher	1	264371	
Leads for side and flasher lamp	2	264349	
Body, floor and sides assembly	1	306966	
Side and wheelarch complete R.H.	1	306923	
Side and wheelarch complete L.H.	1	306924	
Body complete assembly, rear	1	306967	86
Side and wheelarch complete R.H.	1	306926	
Side and wheelarch complete L.H.	1	306927	107
Front floor complete	1	306907	
Gearbox cover complete	1	306908	Can be used on 1954 models.
Sealing rubber for ventilator lids, top	2	306380	
Sealing rubber for ventilator lids, bottom and sides	2	306381	
Retainer for seal, bottom	2	306357	
Oil cooler complete assembly	1	264266	
Pipe, union to flexible pipe	1	264527	} For oil cooler
Pipe to relief valve	1	263181	
Clip for pipe	1	264528	
Union for oil pipe	1	264529	
Joint washer for union	1	231577	
Crankcase sump.—When oil cooler is fitted	1	263332	
Flasher unit kit	1	264784	
Cylinder liner, shaped	4	246762	As used on the 1954 "60"