

SERVICE INFORMATION

Vol. 1 No. 2

LAND-ROVER PETROL AND DIESEL MODELS



The Rover Company Limited, Solihull,
Warwickshire, England

April, 1972

INDEX Vol. Nos. 1 and 2.

Description	Model	Issue No.	Item No.
Brake and clutch fluid	All	2	5
Engines and gearboxes	All	2	6
Gearbox	Series IIA only	1	2
Leycare sequenced service operations	All	2	8A
Rear axle	109 Bonneted Control	2	7
Service information	All	1	1
Vehicles transported with wet charged batteries fitted	All	2	8
White rust on galvanised parts	All	1	4

*Item containing suffix letter change.
Policy items are printed in bold type.

Item 5

SUBJECT: **BRAKE AND CLUTCH FLUID (Policy Item)**

MODELS: All Land-Rover.

MODIFICATION: Change to 'Unipart' range of brake and clutch fluid.

PCMI

TRANSPARENCY: The information detailed in this item will be incorporated in the next available transparency.

LITERATURE AFFECTED:

Land-Rover Parts Catalogue, Series IIA, Part No. 608024, Page 08-43.

Land-Rover Parts Catalogue Supplement, Series III 608049.

Land-Rover Workshop Manual, Series II and IIA, Part 2 English, Part No. 606408, Section 'X', page 2X.

Repair Operations Manual, Series III, Part No. 607314, Division 09, page 09-3.

PART NUMBERS: 'Unipart' 410 (Crimson) Specification, current SAE J.1703

8oz	1 GBF 201
16 oz	1 GBF 202
32 oz	1 GBF 203
1 Gall Tin	1 GBF 204
5 Gall Drum	1 GBF 205

REMARKS: 'Unipart' 410 brake and clutch fluid is suitable for vehicles fitted with drum brakes. It is miscible with the previous type and can be safely added when servicing brakes and clutch hydraulic systems on the above models without draining the system.

NOTE 1: 'Unipart' 550 which is specifically formulated for disc brakes may be used to top up Unipart 410, or as an alternative, but the reverse is not permissible.

NOTE 2: Earlier stocks of Unipart 410 may be either colourless or yellow. All future supplies will be Crimson.

CAUTION: Re-seal tins, especially larger ones, immediately after use. Unsealed fluids will absorb moisture resulting in subsequent loss of braking efficiency.



2RC 127

Fig. 1 'Unipart' 410 brake and clutch fluid

Item 6SUBJECT: **ENGINES AND GEARBOXES**

MODELS: All Land-Rover.

REMARKS: To assist Distributors and Dealers to place orders for engines and gearboxes, the chart below gives details of all Land-Rover engines and gearboxes currently available from our Parts Department.

ENGINES

Part No. New	Part No. Rebuilt	Model	Remarks
241703	245585	1954	
269216	269217	1955-58	
531746	524139	Series II 2½ litre	
605567	600975	Series IIA 2½ litre	Engine suffix to J
605567	605568	7:1 compression ratio	Engine suffix K
606315	607309	Series IIA 2½ litre	Vehicle suffix G onwards
		8:1 Compression ratio	Engines numbered 24100001A onwards
607340	607341	Series III 2½ litre	7:1 compression ratio
607308	607309	Series III 2½ litre	8:1 compression ratio
606315	606316	Series IIA 2½ litre	109 One Ton 8:1 compression ratio
605926	—	Series IIA 88	7:1 compression ratio
		2½ litre USA	Vehicle suffix D only
606140	—	Series IIA 88	7:1 compression ratio
		2½ litre USA	Vehicle suffix F onwards
606997	—	Series IIA 88	8:1 compression ratio
		2½ litre USA	Engine suffix A
			Engines numbered 30700001A onwards
607246	—	Series IIA 88	8:1 compression ratio
		2½ litre USA	Engine suffix B onwards
608204	—	Series III 88	8:1 compression ratio
		2½ litre USA	Engine suffix A
			Engines numbered 25600001A onwards

Bonneted
control

Part No. New	Part No. Rebuilt	Model	Remarks
4-cylinder petrol continued			
605567	605568	Series IIA 2½ litre	} Forward control
605569	605570	Series IIB 2¼ litre	
6-cylinder petrol			
605103	—	Series IIA 2.6 litre	} Bonneted control
605104	605861	Series IIA 2.6 litre	
607342	607343	Series III 2.6 litre	
607312	607313	Series III 2.6 litre	
542468	542469	Series IIA 2.6 litre	7:1 compression ratio
601917	601919	Series IIA and Series IIB 2.6 litre	7.8:1 compression ratio
			109 Engine suffix A
			109 Engine suffix B onwards and all 110
4-cylinder diesel			
247796	276067	Series II 2 litre	1957-61
556831	600978	Series IIA 2¼ litre	} Bonneted control
605654	605655	Series IIA 2¼ litre	
607310	607311	Series III 2¼ litre	Engine suffix A to J
534085	600724	Series IIA 2¼ litre	Engine suffix K onwards
606082	606985	Series IIA 2¼ litre	} Bonneted control optional
565036	606730	Series IIA 2¼ litre	
605727	605728	Series IIA 2¼ litre	
554615	601758	Series IIB 2¼ litre	
605656	605657	Series IIB 2¼ litre	With Lucas 2 AC Generator Engine suffix A to J
			With Lucas 11 AC Generator Engine suffix K onwards
			With Prestolite Generator Engine suffix A to J
			With Prestolite Generator Engine suffix K onwards
			110 Engine suffix A
			110 Engine suffix B onwards
			} Forward control

GEARBOXES

Part No. New	Part No. Rebuilt	Model	Remarks
For use with 4-cylinder petrol and diesel engines			
240168	522776	1954	} Bonneted control
248361	522778	1955-58	
591438	522780	1958-61	
591438	535880	Series IIA	
591438	600917	Series IIA	
607125	607126	Series IIA	
591440	—	Series IIA	
607908	—	Series IIA	Suffix A
576730	607911	Series III	Suffix B
553162	600918	Series IIA	Suffix C onwards
553499	601756	Series IIB	Series III type all synchromesh gearbox adapted for use on Series IIA models
565014	606208	Series IIB	Optional with sealed clutch withdrawal unit
576621	—	Series IIB	109 One Ton
			109
			110 suffix A
			110 suffix B onwards
			Optional 110 with sealed clutch withdrawal unit
			} Forward control

GEARBOXES continued

Part No. New	Part No. Rebuilt	Model	Remarks	
For use with 6-cylinder petrol engines				
591439	605911	Series IIA	Gearbox suffix E	} Bonneted control
607127	607128	Series IIA	Series III type all synchromesh gearbox adapted for use on Series IIA models	
591441	—	Series IIA	Optional with sealed clutch withdrawal unit	
607909	—	Series IIA	109 One Ton	
576761	607912	Series III		} Forward control
553163	600919	Series IIA	109	
553501	601757	Series IIB	110 suffix A	
565010	606209	Series IIB	110 suffix B onwards	
576622	—	Series IIB	Optional 110 with sealed clutch withdrawal unit	

Item 7

SUBJECT: REAR AXLE

MODELS: Land-Rover 109 bonneted control models for certain territories in the Export market and Station Wagons only in U.K.

LITERATURE AFFECTED: Land-Rover Series III Parts Catalogue Supplement, No. 608049.

PART NUMBER: Rear axle complete assembly 1 576764

REMARKS: In Land-Rover Service News Letter, Vol. 3, No. 21a, the commencing number of the Salisbury manufactured rear axle was given as 91100001A. This is incorrect, the axles are actually numbered in the range commencing H71/43 onwards.
Distributors and Dealers are requested to amend their records accordingly.

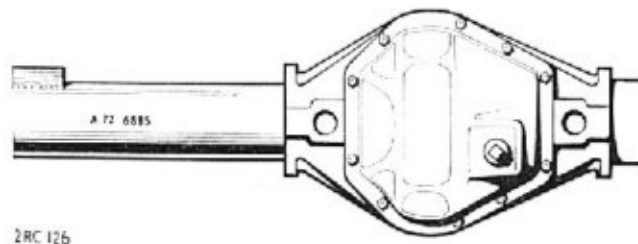


Fig. 2. Location of 'Salisbury' rear axle number

Item 8

SUBJECT: VEHICLES TRANSPORTED WITH WET CHARGED BATTERIES FITTED

MODELS: All Land-Rover.

PARTNUMBERS:

Battery, Exide 6XMM9R or Lucas CA9,	1	567883
Battery, Lucas CA11/9	1	567886
Battery, Exide 6TMZ15L	1	575474

REMARKS:**To overseas distributors as applicable**

To ensure satisfactory life and performance of vehicles delivered to hot climates fitted with wet charged batteries, it will be necessary to correct the strength of the electrolyte as soon as the vehicle arrives.

The following procedure is recommended:

1. Top up with distilled water to correct level.
2. Fully charge the battery at one tenth of the rated capacity (e.g. 60 ampere hours rating —6 amps charge). Check the specific gravity at one hourly intervals and continue to charge until three consecutive readings are consistent.
3. Remove a quantity of electrolyte from each cell, the amount depending on the type of battery used, as follows:-

Exide 6XMM9R	
or Lucas CA9	80 cc
Lucas CA11/9	90 cc
Exide 6TMZ15L	130 cc
4. Top up each cell with the equivalent amount of distilled water.
5. Charge the battery for at least one hour and check for a specific gravity reading of 1.250.

CAUTION. It is important that this method of electrolyte correction is strictly adhered to. It will not prove satisfactory to tip out a quantity of electrolyte and top up with the approved mixture currently used for dry charged batteries. This would result in a high acid content due to residue in the plates and also contamination of the plates by sediment during tipping of the battery.

Item 8A

SUBJECT: LEYCARE SEQUENCED SERVICE OPERATIONS

MODELS: All Land-Rover.

The Repair times for the sequenced service operations, as detailed in the Leycare Section of the Policies and Procedures Manual, Part No. AKD 8000, are as shown in the pink pages of the current Repair Times Schedule, Part No. 606310.

The only exceptions are the pre-delivery times which have been increased because we are now including time for de-waxing and polishing the car, etc.

For your guidance, the charts covering the P.D.I. Free Service and Maintenance Schedules, based on Passport to Service, are reproduced overleaf in full.

LAND-ROVER 88 AND 109 4-CYLINDER PETROL AND DIESEL

Operation No.	Maintenance attention every		Time allowed	
			Petrol	Diesel
	Kilometres	Miles	Hours	Hours
10.10.01	Pre-delivery inspection		3.0	3.0
10.10.03	†1.500	†1,000	3.5	5.2
10.10.06	5.000	3,000	1.7	1.7
10.10.12	10.000	6,000	4.2	3.5
10.10.24	20.000	12,000	5.2	6.7
10.10.48	40.000	24,000	5.4	7.2
10.10.96	80.000	48,000	6.0	7.8

LAND-ROVER 109 6-CYLINDER PETROL

Operation No.	Maintenance attention every		Time allowed
	Kilometres	Miles	Hours
10.10.01	Pre-delivery inspection		3.0
10.10.03	†1.500	†1,000	3.4
10.10.06	5.000	3,000	1.7
10.10.12	10.000	6,000	4.1
10.10.24	20.000	12,000	5.5
10.10.48	40.000	24,000	5.8
10.10.96	80.000	48,000	6.6

†Free Service

70.25.16 Replace brake seals and hoses:

88 models 9.2 hours.

109 models 11.7 hours.

109 models with hydraulic servo 12.9 hours.

70.25.17 Change brake fluid:

All models 1.2 hours.