



Service Department:

**THE ROVER COMPANY LIMITED**

SOLIHULL  
WARWICKSHIRE  
ENGLAND

**LAND-ROVER SERVICE NEWS LETTER**  
**No. 23**

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- Item 119** SUBJECT: **USE OF THE TRANSFER BOX ON THE LAND-ROVER**  
REMARKS: We feel that in many cases the progressive range of gear ratios which can be obtained on the Land-Rover when heavily laden or pulling heavy loads is not sufficiently appreciated.  
The most progressive use will be made of the gear ratios on the Land-Rover when starting in low transfer, under the conditions detailed above, if the following procedure is carried out.  
Transfer box in low, change from 1st to 2nd, from 2nd to 3rd, and from 3rd to top, reaching a speed of about 20 m.p.h. (32 k.p.h.), then change as follows:—low transfer to neutral—pause for engine speed to die down—at the same time change main gear lever from top to 3rd, then engage high transfer and accelerate away. If labouring occurs when the change is made into high transfer then change down into 2nd high transfer. Finally change up through the gears into top.  
This sounds a rather complicated procedure, but in practice it is extremely easy to carry out.
- Item 120** SUBJECT: **FREEWHEELING FRONT HUBS, MANUAL TYPE**  
MODELS: Land-Rover Series I, II, and IIA.  
MODIFICATION: Introduction of freewheeling front hubs, manual type, as Service optional equipment.  
PART NUMBER: Freewheeling front hubs, manual type, conversion kit .... 1 536603  
REMARKS: Stocks of freewheeling front hubs, manual type, conversion kit, complete with detailed fitting instructions, are now available from our Parts Department.  
It must be clearly understood that only the manual type of freewheeling front hub supplied by the Mayflower Automotive Products Ltd., Tavistock, Devon, is officially approved by The Rover Company and will be supplied exclusively by us.
- Item 121** SUBJECT: **GENERATOR 12 VOLT AC/DC AND BATTERY CHARGING SYSTEM**  
MODELS: Land-Rover Petrol and Diesel Series IIA only.  
MODIFICATION: Introduction of a 12 volt AC/DC generator with a split charging system to enable the vehicle's own batteries to be charged and at the same time any radio batteries,

etc., which may be fitted. As the batteries are discharged independently there is no risk of a flat vehicle battery after the radio has been in use under stationary conditions.

**PART NUMBERS:** NOTE. Owing to the number of items involved in this modification, only a strictly limited number of parts have been included. Full details, with illustrations, will be issued in the next amendment to the Land-Rover Series II and IIA Parts Catalogue.

Belt for fan	....	....	....	....	....	....	1	535688
Belt for generator	....	....	....	....	....	....	1	535686
Brushes for generator set Lucas 244018	....	....	....	....	....	....	1	516478
Oil seal for idler outer bearing	....	....	....	....	....	....	1	529223
Ammeter 60-0-60 C.A.V. W5539/233/T	....	....	....	....	....	....	2	500907
Relay, 7 RA, isolating charging terminals Lucas 33235	....	....	....	....	....	....	1	519979
Voltage regulator box, transistorised Lucas 37296	....	....	....	....	....	....	1	507172
Hose for radiator, bottom	....	....	....	....	....	....	1	530585

**REMARKS:** Owing to extensive modifications to the chassis frame to accommodate the re-positioned air cleaner and to the seat base for the new battery position and the expensive and difficult nature of these modifications, it is not our intention to supply a service modification kit to cover the installation on the Series IIA models.

It follows that the generator must be fitted on production and called up on the Sales Label at the time the vehicle is ordered, under the E numbers detailed below.

E1214	....	88 petrol models
E1215	....	109 petrol models except Station Wagon
E1216	....	109 Station Wagon petrol models
E1222	....	88 Diesel models
E1223	....	109 Diesel models except Station Wagon
E1224	....	109 Station Wagon Diesel models

The following special points should be noted concerning various aspects of the AC/DC generator.

- (a) When a replacement diesel engine is required use the special engine Part No. 534085.
- (b) For replacement petrol engines, use the basic engine, Part No. 524848, and change the front cover, new part number 529155, and the crankshaft pulley, new part number 515287.
- (c) When the 12 volt AC/DC generator is fitted it is not possible to fit any batteries in the engine compartment.

One battery is located in the tool box position, but in the following instances the centre seat must be deleted and the position utilised to take one battery.

1. All 12 volt Diesel installations.
2. All 12 volt petrol installations when an additional fuel tank is also required by the customer.