

# SERVICE INFORMATION

# LAND-ROVER PETROL AND DIESEL MODELS



## Vol. 1 No. 16

Rover  
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The headings in this index are in the same sequence as the Divisions in the Repair Operation Manual. Under these headings each item is detailed alphabetically with the appropriate Manual Section or Division number for easy reference. The last two columns indicate numerically the individual items covered and the issue in which they appeared.

### INDEX Vol. 1 No. 16

Description	Manual Section or Division	Model	Issue No.	Item No.
<b>STEERING</b> <b>Locks, returns under Warranty</b>	57	Series III	<b>16</b>	<b>68</b>
<b>BRAKES</b> Wheel cylinder overhaul kit	H	Series II, IIA, IIB and earlier models	16	69
<b>BODY</b> <b>Locks, returns under Warranty</b>	76	Series III	<b>16</b>	<b>68</b>
<b>INSTRUMENTS</b> Ammeter	88	Series III	16	70
<b>MISCELLANEOUS</b> European Service facilities (Service in Europe)	—	All	16	71

\*Item contains suffix letter change.  
Policy items printed in bold type.

#### Item 68

**SUBJECT: LOCKS, RETURNS UNDER WARRANTY (Policy item)**

**MODELS:** Land-Rover, Series III.

**OBJECTIVE:** To clarify the procedure for the return of locks under Warranty.

**REMARKS:** It is essential, when returning ignition/steering column locks, that the keys are returned with them. In the case of other vehicle locks, notification of the key number on the claim label will suffice to enable the parts to be presented to the appropriate manufacturer for counter-claim purposes.

Failure to observe the above requirements will result in the claim being cancelled or debited, as the case may be.

#### Item 69

**SUBJECT: WHEEL CYLINDER OVERHAUL KITS**

**MODELS:** Land-Rover specified below.

**OBJECTIVE:** Deletion of bleed screw ball and tube of grease from wheel cylinder overhaul kits, detailed on the next page.

**PART NUMBERS:** Wheel cylinder overhaul kit, rear 266679 60, 75 (1948-49)  
Wheel cylinder overhaul kit, front 266684 107, 109 (1954-57) and Series II, IIA, 109  
Wheel cylinder overhaul kit, rear 266683 107, 109 (1954-60)  
Wheel cylinder overhaul kit, rear 523164 Series II (1960-61)  
Wheel cylinder overhaul kit, rear 275744 Series IIA, 88, 109 2½, 2.6 litre and IIA, IIB F C  
Wheel cylinder overhaul kit, front 275744 Series IIA 88 (10" brakes)  
Wheel cylinder overhaul kit, front 600210 Series IIA 109 2.6 litre and IIA, IIB F C

REMARKS:

Since bleed screw balls are not used with the conical type bleed screws currently supplied they have been deleted from the above kits. This also applies to the tube of red 'rubber' grease, which for policy reasons, is no longer recommended for this application by the manufacturers. The rubber dust covers should be smeared with a little hydraulic fluid when fitting.

The relevant literature will be amended as necessary at the next reprint.

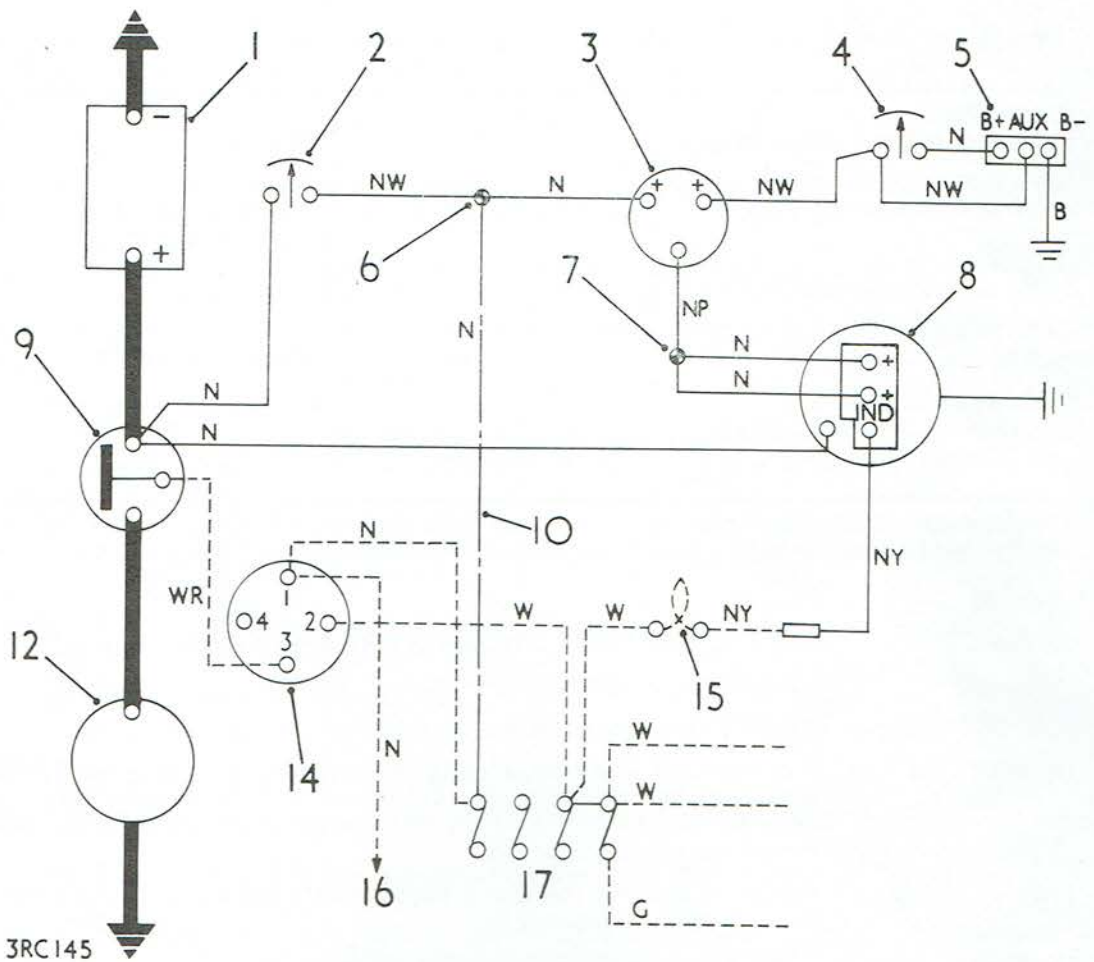
Item 70

SUBJECT:

**AMMETERS**

MODELS:

Land-Rover Series III with split charge facility.



3RC145

**Fig. 1** Circuit diagram, 2½ and 2.6 litre petrol models. Split charge conversion with 18 ACR battery sensed alternator and two ammeters

**Key to Fig. 1**

- 1 Vehicle battery, 12 volt
- 2 Ammeter for vehicle battery
- 3 Diode unit
- 4 Ammeter for auxiliary battery
- 5 Terminal box
- 6 Ammeter terminal post
- 7 Terminal post
- 8 18 ACR alternator

- 9 Starter solenoid
- 10 Brown lead in main harness re-positioned from solenoid to ammeter terminal post
- 12 Starter motor
- 14 Ignition and starter switch
- 15 Ignition warning light
- 16 To horn push
- 17 Fuse unit

**Lead colours**

- B—Black      G—Green      N—Brown      P—Pink      R—Red      W—White      Y—Yellow
- Existing leads shown dotted, new leads shown in full.



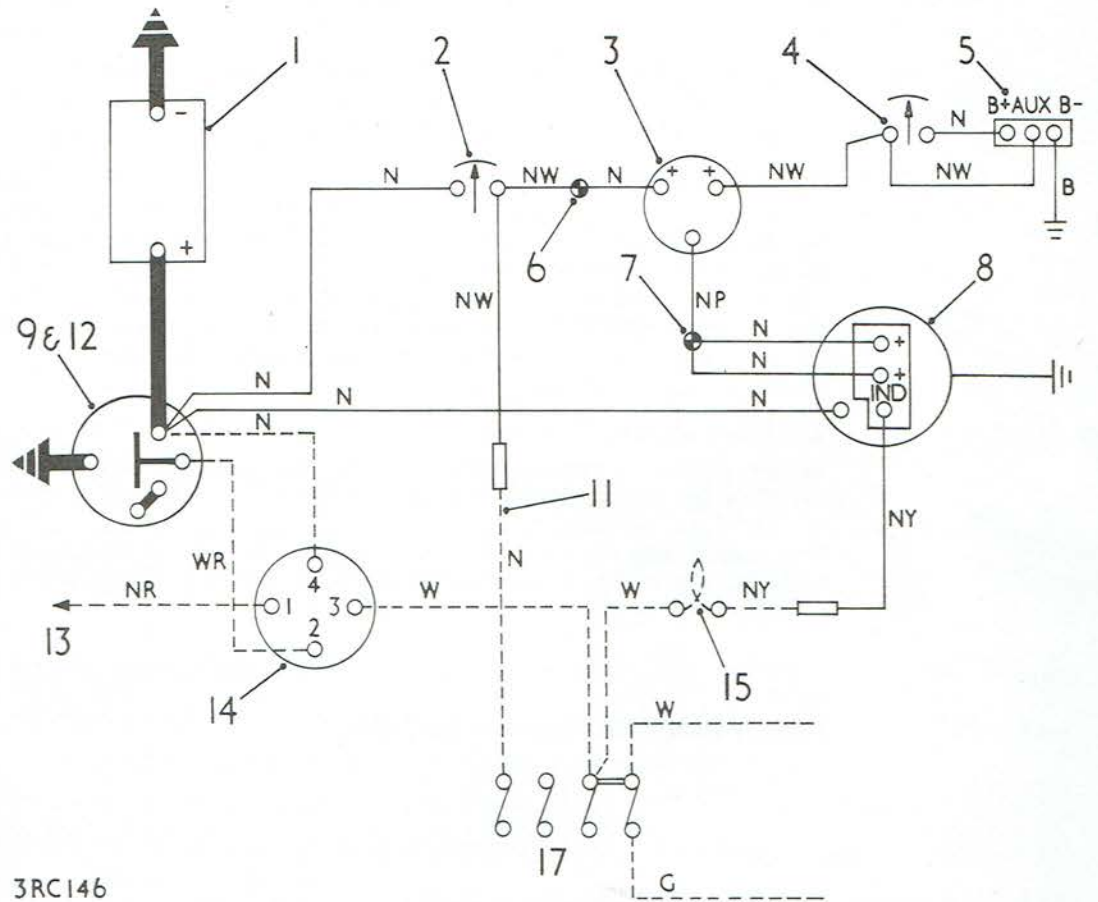
**OBJECTIVE:** To clarify the function of the ammeter fitted in models with an auxiliary battery charging circuit.

**PART NUMBERS:** Ammeter, Lucas type CZU60, 50-0-50 amps. 1 579219, early models with white illumination.

Ammeter, Lucas type CZU60, 50-0-50 amps. 1 589242, current models with green illumination.

**REMARKS:** On Land-Rover models where an auxiliary battery charging circuit and ammeter is specified, the ammeter is connected to the auxiliary circuit and therefore will **only indicate** the current flow in and out of the auxiliary battery. However, if required, an ammeter kit, Part No. 607697 is available for fitting into the vehicle battery circuit.

Circuit diagrams for petrol and diesel models respectively are shown below which both incorporate two ammeters.



**Fig. 2 Circuit diagram, 2½ litre diesel models. Split charge conversion with 18 ACR battery sensed alternator and two ammeters**

**Key to Fig. 2**

- 1 Vehicle battery, 12 volt
- 2 Ammeter for vehicle battery
- 3 Diode unit
- 4 Ammeter for auxiliary battery
- 5 Terminal box
- 6 Ammeter terminal post
- 7 Terminal post
- 8 18 ACR alternator
- 9 Starter solenoid

- 11 Brown lead in main harness from heater/starter switch and connected to brown/white lead from ammeter
- 12 Starter motor
- 13 To ballast resistor
- 14 Heater and starter light
- 15 Charge warning light
- 17 Fuse unit

**Lead colours**

B—Black    G—Green    N—Brown    P—Pink    R—Red    W—White    Y—Yellow  
Existing leads shown dotted, new leads shown in full.

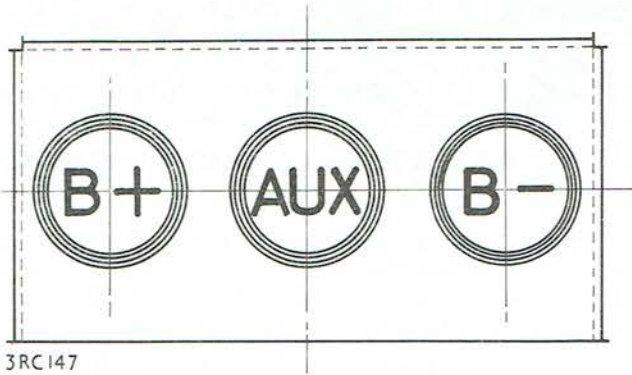


Fig. 3 Terminal box

The terminal box illustrated is used with split charge systems where electrical power or battery charging facilities are required.

The functions of the above terminals are as follows:-

#### Battery charging

B+ and B- terminals are used for battery charging purposes, an ammeter being connected in the B+ line in order to monitor the current flow from the charging source, i.e. alternator, to the batteries.

It is essential that when charging batteries, the cable used must be capable of carrying the maximum rated output of the alternator, i.e. 45 amps.

When charging more than one 12 volt battery, interconnections between batteries must be made in parallel.

#### Auxiliary electrical power

When power is required for driving low voltage equipment with the engine running, connection should be made between B- and AUX in which case the ammeter will show no reading.

The reason why the ammeter does not register in the AUX position is to protect this from damage due to current surge on certain types of electrical equipment.

#### Item 71

SUBJECT: **EUROPEAN SERVICE FACILITIES**

MODELS: Land-Rover.

OBJECTIVE: To introduce the twenty-second issue of the booklet entitled 'Service in Europe'.

PART NUMBERS: 'Service in Europe' booklet, English only, Part No. AKD 1221.

REMARKS: Details of all Rover and other British Leyland Distributors and Dealers in Europe are included in the latest edition of the above publication.

Copies of this useful booklet are available free of charge from Rover-British Leyland UK Ltd., Technical Service Dept., Solihull, Box No. 4, Warwickshire, England, B92 8NP.