

# Land-Rover Service Newsletter Vol. 3 No. 9



December 1969

The Rover Company Limited Service Department: Solihull, Warwickshire, England

By Appointment to  
Her Majesty  
Queen Elizabeth II



Manufacturers  
of Motor Cars and  
Land-Rovers

- Item 75 SUBJECT: **FROST PRECAUTIONS (Policy item)**
- MODELS: Land-Rover Bonneted and Forward Control.
- MODIFICATION: Re-issue of anti-freeze requirement chart and list of approved anti-freeze solutions, to:
- Clarify the amount of anti-freeze required, to raise a  $33\frac{1}{3}\%$  solution to 50%.
  - Amend list of recommended brands, deleting the word 'Super' from Bluecol specification.

Model	Anti-freeze required for 50% solution		Anti-freeze required to raise $33\frac{1}{3}\%$ solution to 50% *See note below	
	Pints	Litres	Pints	Litres
<b>Bonneted Control</b>				
2 $\frac{1}{4}$ litre Petrol } Early models	9	5.1	4 $\frac{1}{2}$	2.5
2 $\frac{1}{4}$ litre Diesel } Early models	8 $\frac{3}{4}$	5.0	4 $\frac{1}{2}$	2.5
2 $\frac{1}{4}$ litre Petrol } Current Production models	7	4.0	3 $\frac{1}{2}$	2.0
2 $\frac{1}{4}$ litre Diesel } Current Production models	6 $\frac{3}{4}$	3.9	3 $\frac{1}{2}$	2.0
109 in. with 2.6 litre 6 cylinder Petrol Engine.. .. .	10	4.6	5	2.8
<b>Forward Control, all models</b>				
2 $\frac{1}{4}$ litre Petrol .. .. .	9 $\frac{1}{2}$	5.4	4 $\frac{3}{4}$	2.6
2 $\frac{1}{4}$ litre Diesel .. .. .	9	5.1	4 $\frac{1}{2}$	2.5
2.6 litre 6 cylinder Petrol Engine ..	11 $\frac{1}{2}$	6.5	5 $\frac{3}{4}$	3.2

**\*Note:** To obtain a 50% solution, drain off the appropriate amount of the original  $33\frac{1}{3}\%$  solution and add the corresponding quantity of neat anti-freeze, this amount compensates for the anti-freeze lost when the radiator is partially drained. It is important that only anti-freeze solutions conforming to British Standards BS 3151 or 3152 are used.

The following solutions conforming to the above Standards have been approved for use in Land-Rover cooling systems:

- Bluecol
- BP Anti-frost
- Castrol Anti-freeze
- Duckham's 'Standard' Anti-freeze
- Esso Anti-freeze
- Mobil Permazone
- Regent Texaco/Caltex P.T. Anti-freeze
- Shell Anti-freeze
- Or Prestone, which is suitable but does not actually conform to BS 3151 or 3152.

- Item 76** SUBJECT: **INFORMATION SUPPLIED IN NEWS LETTERS (Policy item)**
- REMARKS: Distributors and Dealers are requested to ensure that the following important matter is clearly understood by all concerned.
- Official announcements of changes in design, or various improvements to our products, circulated to you by means of Land-Rover Service News Letters, must not be taken as authority to carry out modifications at the expense of the Rover Company.
- Item 77** SUBJECT: **CROWNWHEEL AND PINION (Policy item)**
- MODELS: Land-Rover, all models with Rover-type differential.
- MODIFICATION: Withdrawal of crownwheel and bevel pinion kit from Service use, to simplify Stores procedure.
- LITERATURE AFFECTED: Land-Rover Parts Catalogue, Bonneted Control, Part No. 605957, page 261.  
Land-Rover Parts Catalogue, Forward Control, Part No. 4862, page 169.
- PART NUMBERS:
- |                             |   |        |  |
|-----------------------------|---|--------|--|
| Crownwheel and bevel pinion | 1 | 600538 |  |
| End washer .. .. .          | 1 | 502248 | Axles with suffix letter 'A'<br>axles only   |
| Plain washer .. .. .        | 1 | 513454 | From axles with suffix letter 'B'<br>onwards |
- REMARKS: In order to improve handling, packaging and storage procedure, the crownwheel and bevel pinion assembly, Part No. 542341, consisting of the above items, will no longer be supplied as a kit.
- When required, items must be ordered individually under the above part numbers as applicable.
- The end washers for bevel pinion shims, Part No. 502248 are only used on axles with suffix letter 'A'. The plain washer for driving flange, Part No. 513454 is used on axles from suffix letter 'B' onwards.
- Full assembly instructions, shim pre-loads and tightening torques are given in the Land-Rover Workshop Manual Part II, Part No. 606408, Operation E1-14.
- Item 78** SUBJECT: **FRONT CRANKSHAFT PULLEY**
- MODEL: Land-Rover 2½ litre Diesel, Bonneted and Forward Control.
- MODIFICATION: Increased torque loading for crankshaft pulley.
- LITERATURE AFFECTED: Land-Rover Workshop Manual, Part No. 606407, page 53-A2.
- REMARKS: When refitting the starter dog and pulley, the correct torque loading should be 200 lb. ft (27,65 mkg) and not 150 lb. ft (20,5 mkg) as quoted in the Workshop Manual.
- The Workshop Manual will be amended at the next reprint; in the meantime, Distributors and Dealers are asked to amend their literature and to advise the appropriate personnel accordingly.
- Item 79** SUBJECT: **AIR CLEANER, BATTERY AND HORN SUPPORT, HORN AND HORN PROTECTOR PLATE**
- MODELS: Land-Rover 88 in. and 109 in. Bonneted Control, 2½ litre Petrol and Diesel.
- MODIFICATION: Introduction of redesigned air cleaner, battery and horn support, together with new horn and horn protector plate.

LITERATURE AFFECTED: Land-Rover Parts Catalogue, Part No. 605957, pages 325 and 425.

PART NUMBERS: Air cleaner, battery and horn support .. .. . 1 569689  
 Battery fixing rod .. .. . 2 562953  
 Horn, type 725 .. .. . 1 575191  
 Horn protector plate .. .. . 1 347020  
 Acme bolt } Protector plate 2 303750 } RHStg  
 Plain washer } to radiator grille 2 3900 } vehicles  
 Spire nut } RH side baffle 2 302532 } only

REMARKS: The redesigned air cleaner, battery and horn support has been introduced to simplify production and this item can also be used on early vehicles, provided the battery fixing rods are also supplied and fitted.

The horn mounting bracket has been moved through 90° to suit the new air cleaner, battery and horn support. Consequently, the horn is not interchangeable with the previous type.

The horn protection plate is now a separate item, retained by bolts; it is fitted to RHStg vehicles only.

Both early and late type parts are available for all Service replacements.

**Item 80 SUBJECT: SILENTBLOC BUSH FOR REAR SPRING**

MODEL: Land-Rover, Forward Control models.

MODIFICATION: Introduction of improved Silentbloc bushes for rear springs.

LITERATURE AFFECTED: Land-Rover Forward Control Parts Catalogue, Part No. 4862, page 217.

PART NUMBER: Bush for rear spring .. .. . 4 551906

REMARKS: These bushes have improved load deflection characteristics; they are interchangeable with the early type as complete sets only.

The latest bushes will be supplied for all Service replacements, when stocks of the early type are exhausted.

**Item 81 SUBJECT: RADIATOR CAPS**

MODELS: Land-Rover

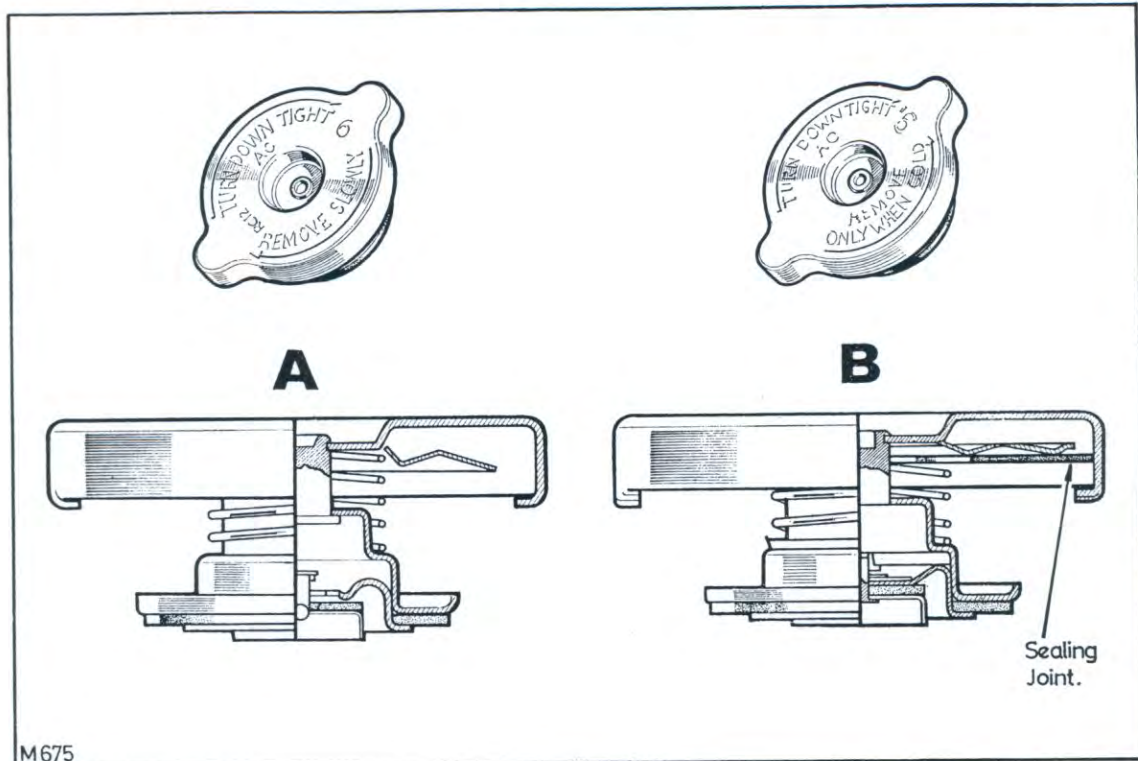
LITERATURE AFFECTED: Land-Rover Parts Catalogue, Part No. 605957, pages 377 and 378.

PART NUMBER: Filler cap for radiator .. .. . 1 564713

REMARKS: Radiator filler cap, Part No. 564713 has been used since the introduction of the semi-sealed cooling system with the overflow bottle. It contains a sealing joint, which prevents air entering the radiator during the cooling off period.

It has been brought to our notice that lost or stolen radiator caps are sometimes being replaced by the earlier type cap, Part No. 509767, which does not comprise a sealing joint. The use of this cap renders the overflow system ineffective by admitting air into the system during the cooling off period, and thus preventing the coolant trapped in the overflow bottle returning to the header tank. Deprived of the correct quantity of coolant in the system, the engine may overheat and could suffer serious damage.

In order to eliminate this danger, radiator filler cap, Part No. 564713 will be supplied for all Service replacements, when stocks of Part No. 509767 are exhausted.



**Radiator filler cap identification**

A—Old type filler cap, Part No. 509767    B—Current type filler cap, Part No. 564713

**Item 82 SUBJECT: JERRICAN AND FIXING KIT**

**MODELS:** Land-Rover.

**REMARKS:** Distributors and Dealers should note that the jerrican and fixing kit, Part No. 320615 is not suitable for Land-Rovers with headlamps mounted in the front wings.

The practicability of fitting jerricans to these vehicles is under consideration. In the event of a kit becoming available, an appropriate item will be included in a future News Letter.

It should be noted that jerricans must not be fitted in front of the radiator grille, as this reduces the air flow through the radiator and leads to engine overheating.