



Service Department:

**THE ROVER COMPANY LIMITED**

By Appointment to  
Her Majesty  
Queen Elizabeth II



Manufacturers  
of Motor Cars and  
Land-Rovers

SOLIHULL  
WARWICKSHIRE  
ENGLAND

## LAND-ROVER SERVICE NEWS LETTER Vol. 2 No. 14

November 1966

**Item 55** SUBJECT: **RECOMMENDED LUBRICANTS (Policy item)**

MODEL: Land-Rover.

REMARKS: BP Super Visco-static is officially recommended by the Rover Company for use in their products in lieu of BP Energol SAE 20, as detailed in our Service Literature. BP Super Visco-static is a multigrade oil suitable for all countries and all temperature ranges. Reference to the new oil will be incorporated in the various publications affected as and when they are reprinted.

**Item 56** SUBJECT: **FROST PRECAUTIONS (Policy item)**

MODELS: Land-Rover Series IIA, 88 Regular, 109 Long and 109 Forward Control, Series IIA and IIB.

LITERATURE AFFECTED: Land-Rover Workshop Manual, English, Part No. 4611. Page No. L-9.

REMARKS: With effect from 1st October 1966 and for the duration of the winter months until the end of March 1967, all Land-Rovers destined for the home market will be despatched with the cooling system filled with a 33 $\frac{1}{3}$ % solution of anti-freeze mixture, giving frost protection down to  $-25^{\circ}\text{F}$  ( $-32^{\circ}\text{C}$ ).  
At the same time a 10% solution of methylated spirit or industrial alcohol is added to the windscreen washer reservoir where this equipment is fitted.  
Each Land-Rover so treated can be identified by a blue disc which is attached to the engine and a blue sticker which is fixed on to the inside of the windscreen at the right-hand side.  
Export Land-Rovers, with the exception of those for the North American Dollar Area, are drained at the docks before despatch.  
In the case of NADA vehicles, a 50% solution is used, and these vehicles are identified by a red disc and label in place of the blue ones. The 50% solution affords frost precaution down to  $-33^{\circ}\text{F}$  ( $-36^{\circ}\text{C}$ ).  
Distributors and Dealers are requested to add the appropriate amount of anti-freeze to the cooling system of Land-Rovers held in stock, to ensure that the necessary frost precaution is afforded.

At a percentage of 33 $\frac{1}{3}$ % the following quantities of anti-freeze are required:

Model	Cooling system capacity		Anti-freeze required		Water	
	Pints	Litres	Pints	Litres	Pints	Litres
Land-Rover 2 $\frac{1}{4}$ litre Petrol and Diesel Basic vehicles	17 $\frac{1}{2}$	10	5 $\frac{2}{3}$	3 $\frac{1}{2}$	11 $\frac{1}{3}$	6 $\frac{1}{2}$
Land-Rover Forward Control 2 $\frac{1}{4}$ litres Petrol and Diesel	19	10 $\frac{3}{4}$	6 $\frac{1}{3}$	3 $\frac{3}{4}$	12 $\frac{2}{3}$	7
Land-Rover Forward Control 2.6 litre	23	13	7 $\frac{2}{3}$	4 $\frac{1}{2}$	15 $\frac{1}{3}$	8 $\frac{1}{2}$

The quantities required for a 50% solution or to bring a 33 $\frac{1}{3}$ % solution up to 50% are detailed in the chart below:

Model	Cooling system capacity		Anti-freeze required for 50% solution		Anti-freeze required to raise 33 $\frac{1}{3}$ % solution to 50%	
	Pints	Litres	Pints	Litres	Pints	Litres
Land-Rover 2 $\frac{1}{4}$ litre Petrol and Diesel Basic vehicles	17 $\frac{1}{2}$	10	8 $\frac{3}{4}$	5	2 $\frac{7}{8}$	1,6
Land-Rover Forward Control 2 $\frac{1}{4}$ litre Petrol and Diesel	19	10 $\frac{3}{4}$	9 $\frac{1}{2}$	5 $\frac{1}{2}$	3 $\frac{1}{4}$	1,8
Land-Rover Forward Control 2.6 litre	23	13	11 $\frac{1}{2}$	6 $\frac{1}{2}$	3 $\frac{7}{8}$	2,2

**Item 57** SUBJECT: **SERVICE LITERATURE (Policy item)**

MODEL: Land-Rover.

REMARKS: With this News Letter issue and all future issues we are, when referring to Part Numbers, also indicating the page number of the Parts Catalogue to which it applies. Similarly, in the case of the Workshop Manual, reference will be made to the appropriate operation or page number.

A new heading "Literature affected" has been introduced to this effect.

In this way it will be possible for users of our various Service Publications to enter the News Letter number on the appropriate page of the publication in question, to provide a quick means of cross-reference.

**Item 58** SUBJECT: **THERMOSTAT**

MODEL: Land-Rover.

LITERATURE  
AFFECTED: Land-Rover Workshop Manual, English, Part No. 4611. Page L-4.

REMARKS: A large number of thermostats returned as being faulty are, when tested, found to be perfectly satisfactory and serviceable.

It is essential that thermostats are checked to ascertain their condition, before discarding them.

To check the correct functioning of either a bellows or wax type thermostat, it should be immersed in boiling water for 45 to 60 seconds, after which time it should have opened to its maximum by approximately  $\frac{3}{8}$  in. (10 mm).

Units which fail this test must be replaced. In addition, the thermostat should also be examined to ensure that the valve is seating correctly and that the unit is free from mechanical damage.

**Item 59** SUBJECT: **GEARBOX**

MODEL: Land-Rover.

REMARKS: Distributors and Dealers are advised that the back plate is liable to be damaged if the gearbox is stood on the transmission brake. A warning label has been attached to all units for some time, and every precaution must be taken to ensure that damage is not sustained in this manner.