

Land-Rover  
Service  
News-Letter  
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The Rover Company Limited Service Department: Solihull, Warwickshire, England

By Appointment to  
Her Majesty  
Queen Elizabeth II



Manufacturers  
of Cars and  
Land-Rovers

Item: 160  
Subject: Frost precautions (Policy item)  
Model: All Land-Rovers  
Modification: Introduction of frost precaution instructions for the winter 1971/72.  
Remarks: Company policy with regards to the use of anti-freeze mixtures in our products remains basically the same as previous applications.

Home Market

- (a) The cooling system will be filled with a 33.1/3% solution of anti-freeze and, where applicable, the windscreen washer reservoir with 25% alcohol. This procedure commences on the assembly line on the 1st October and continues until the following 31st March.  
Each Land-Rover so treated can be identified by a blue and white disc attached to the radiator and a blue and white sticker fixed to the inside of the windscreen on the right hand side.

Export Market

- (b) The cooling system and windscreen washer reservoir are filled with anti-freeze and alcohol respectively, as detailed under (a) throughout the year. Land-Rover models destined for certain export markets will have the cooling system filled with a 50% anti-freeze solution in which case a red/blue and white disc indicating a 50% concentration will be attached to the radiator and a red/blue and white sticker fixed to the inside of the windscreen.  
At a percentage of 33.1/3 the following quantities of anti-freeze and water are required.

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Model	Cooling system Capacity		Anti-freeze required	
	Pints	Litres	Pints	Litres
Bonneted Control				
2¼ litre Petrol	14.25	8.1	4.75	2.7
2¼ litre Diesel	13.75	7.8	4.5	2.6
109 in with 2.6 litre ) 6 cylinder Petrol ) engine )	all models 2 0	11.3	6.6	3.8
Forward Control, all models				
2¼ litre Petrol	19	10.8	6.75	3.8
2¼ litre Diesel	18	10.2	6	3.5
2.6 litre 6 cylinder petrol engine	23	13.0	7.75	4.5

The quantities required to bring a 33.1/3% solution up to 50% are detailed in the chart below.

Model	Anti-freeze required for 50% solution		Anti-freeze required to raise 33.1/3% solution to 50% *See note below	
	Pints	Litres	Pints	Litres
Bonneted Control				
2¼ litre Petrol	7	4.0	3.5	2.0
2¼ litre Diesel	6.75	3.9	3.5	2.0
109 in with 2.6 litre cylinder petrol engine	10	4.6	5	2.8
Forward Control, all models				
2¼ litre Petrol	9.5	5.4	4.75	2.6
2¼ litre Diesel	9	5.1	4.5	2.5
2.6 litre 6 cylinder petrol engine	11.5	6.5	5.75	3.2

\*Note: To obtain a 50% solution, drain off the appropriate amount of the original 33.1/3% 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  
B P Anti-frost  
Castrol Anti-freeze  
Duckham's 'Standard' Anti-freeze  
Esso Anti-freeze  
Mobil Permazone  
Texaco/Caltex P T Anti-freeze  
Shell Anti-freeze

Prestone is also suitable although it does not actually conform to BS 3151 or 3152.

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Distributors and Dealers are advised to check as a precautionary measure all new vehicles received from the factory during the initial transition period, to ensure that anti-freeze has been added to the cooling system.

All Land—Rovers held in stock should also be checked and have the appropriate amount of the correct anti-freeze added to the cooling system to ensure that the necessary frost precaution is afforded.

Item: 161

Subject: REAR AXLE ASSEMBLY (Policy item)

Models: All Land—Rovers 109 Bonneted Control models

P C M I

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

Modification: When stocks of the ENV rear axle Part No. 591316 are exhausted future orders for replacement rear axle complete assemblies will be met by supplying the Salisbury rear axle complete, Part No. 576764.  
Component parts for the ENV type axle should continue to be stocked until exhausted, as the new and replaced parts are not interchangeable.  
To enable a Salisbury rear axle to be fitted to an earlier Series IIA 109 model in place of an ENV type axle the following parts must be fitted and the corresponding earlier parts discarded:

Part Numbers: Rear axle assembly, Salisbury type	1	576764
Check strap for rear axle	2	592181
'T' piece for brake pipe on rear axle	1	537761
Brake pipe on axle (LH)	1	592374
Brake pipe on axle (RH)	1	592375
Propeller shaft	1	591283
Rear spring bottom plate	2	592179
'U' bolt for rear spring	4	592182
Self locking nut (12 mm) for 'U' bolt	8	810502

Remarks: Reference should be made to Land—Rover Service News Letter Vol 3 No 21A for Parts and Service information and to Workshop Manual Supplement No 2 Part No 607289 for overhaul information on the Salisbury axle.