RADIATOR AND COOLING SYSTEM



SERVICE INSTRUCTION LEAFLET

ISSUED BY

Subject :

ROLLS-ROYCE LIMITED

RR/R1(b).

SB/LT.1/SF.

COOLING SYSTEM PROTECTION FROM FROST: - ANTI FREEZE ADDITIVES. ALL MODELS.

Date 11th March, 1947. Issue

of

This Leaflet cancels RR/R1(a).

The following table indicates the anti-freeze additives recommended and the quantities required to give protection against various degrees of frost.

Attention is drawn to the following points in connection with these additives.

IMPORTANT

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It is essential that whether the basic constituent is glycerine or ethylene glycol, a corrosion inhibitor be included in the mixture. Inhibited ethylene glycol complies with this requirement. In the case of the glycerine base alternative the inhibitor must be added. On no account should these two types of anti-freeze be mixed.

Owing to the adverse affect of glycerine on rubber and the tendency for ethylene glycol to find weak points which may exist in the cooling system, an examination should be made to ensure good coolant joints before either is introduced.

It is desirable to make up the anti-freeze mixture before filling the system, the use of hot water is recommended.

Inhibited Ethylene Glycol.

	Temperature ^o Fahrenheit	Degrees of Frost	20 HP 20/25HP 25/30HP	Wraith	Phantom I	Phantom II	Phantom III
	220	100	4 ¹ / ₄ pts.	32pts.	8 pts.	$7\frac{3}{4}$ pts.	6 <u>1</u> pts.
Statement and	120	200	7 <u>4</u> "	51 *	132 "	13 "	101 "
	20	300	9 <u>3</u> "	71 11	18 *	17 <u>1</u> "	144 "
	-30	35°	11 "	8 "	20 "	19½ "	16 "
Southern States and St	Temperature ^o Centigrade						
	-5°		$2\frac{1}{4}$ ltrs.	2 ltrs.	$4\frac{1}{2}$ ltrs.	$4\frac{1}{2}$ ltrs.	31 ltrs.
-	-110		4	3 "	7 <u>3</u> •	71 "	6 11
	-170	•	5 <u>1</u> "	44 11	10 <u>1</u> "	9 <u>3</u> "	81 *
Concession of the local division of the loca	-20 ⁰		64 10	4-2 **	11 <u>1</u> "	11 *	9 "
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ALL COMMUNICATIONS SHOULD BE ADDRESSED TO

ROLLS-ROYCE LIMITED, SERVICE STATION, HYTHE ROAD, WILLESDEN, LONDON, N.W.10

GLYCERINE AND WATERGLASS (SILICATE OF SODIUM).

					Glycerine in Pints. Waterglass in fl.oz.		
Temperature ^o Fahrenheit	Degrees of Frost	20 HP 20/25HP 25/30HP	Wraith	Phantom I	Phantom II	Phantom III	
20 ⁰	10 ⁰	5 pts. 1½ fl.oz	34 pts. 1 fl.oz	$9\frac{1}{2}$ pts. $2\frac{1}{2}$ fl.oz.	9 pts. 2 <u>1</u> fl.oz.	7 <u>1</u> pts. 2 fl.oz.	
120	20 ⁰	7 <u>1</u> " 2 "	51 n 11 n	14 " 3 ¹ / ₂ "	13 ¹ / ₂ " 3 ¹ / ₂ "	$10\frac{3}{4}$ " $2\frac{1}{2}$ "	
20	30°	9 ¹ / ₂ " 2 ¹ / ₂ "	7 ¹¹ 2 ¹¹	17 <u>1</u> " 4 <u>1</u> "	16 <u>1</u> " 4 "	13 <u>3</u> " 3 <u>1</u> "	
-3°	35°	11 <u>1</u> " 3 "	8 <u>1</u> " 2 "	21 " 5½ "	20 <u>1</u> " 5	16 <u>1</u> " 4 "	
					Glycerine in Waterglass i		
Temperature ^o Centigrade	•						
-5°		3 ltrs.		$5\frac{1}{2}$ ltrs.		$4\frac{1}{4}$ ltrs.	

-5°	3 ltrs. 42 ccs.	2 ltrs. $5\frac{1}{2}$ ltrs. 28 ccs. 70 ccs.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
-110	4 4 ** 56 **	3 " 8 " 42 " 98 "	7 3 " 6 " 98 " 70 "	
-17°	5½ ** 70 *	4 <u>1</u> " 10 " 56 " 126 "	9½ ** 8 ** 112 ** 98 **	
-20 ⁰	6 <u>1</u> # 84 #	$4\frac{3}{4}$ " 12 " 56 " 154 "	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	