RADIATOR AND COOLING SYSTEM

SERVICE INSTRUCTION LEAFLET

ISSUED BY
BENTLEY MOTORS (1931) LTD.

BM/R1(b).

SB/LT.1/SF.

Subject :
COOLING SYSTEM.
PROTECTION FROM FROST:-ANTI-FREEZE ADDITIVES.
$3\frac{1}{2}$ & $4\frac{1}{4}$ LITRE MODELS.

Date of Issue 11th March, 1947.

IMPORTANT

THE CONTENTS OF THIS DOCUMENT ARE STRICTLY CONFIDENTIAL AND ARE NOT TO BE TRANSMITTED TO ANY UNAUTHORIZED PERSON.

This leaflet cancels BM/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.

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 effect 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.

Temperature °Fahrenheit	Degrees of Frost	Inhibited Ethylene Glycol	Glycerine	Waterglass (Silicate of Sodium)
22°	10	$3\frac{1}{2}$ pts.	4 pts.	1 fluid oz.
12°	20	6 "	$6\frac{1}{4}$ "	$1\frac{1}{4}$ "
2°	30	$7\frac{3}{4}$ "	8 "	2 "
-3°	35	$8\frac{3}{4}$ "	9 "	$2\frac{1}{2}$ "

Temperature °Centigrade			
-5°	2 ltrs.	$2\frac{1}{4}$ ltrs.	28 ccs.
-11°	$3\frac{1}{2}$ "	$3\frac{3}{4}$ "	42 "
-17°	$4\frac{1}{2}$ "	$4\frac{3}{4}$ "	56 "
-20°	5 "	$5\frac{1}{4}$ "	70 "