

PACKARD MOTOR CAR COMPANY  
DETROIT · MICHIGAN

March 16, 1923

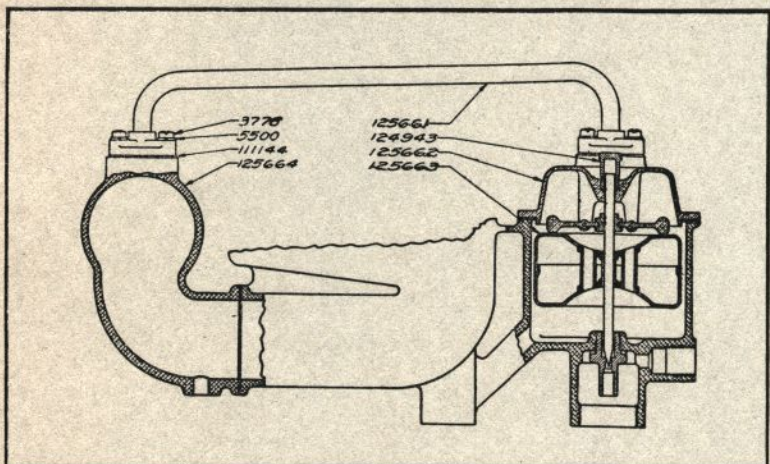
TO PACKARD DISTRIBUTERS

REFER TO THIS LETTER BY NUMBER

TO BE NOTED AND INITIALED BY	

SUBJECT

USE OF HIGH TEST GASOLINE IN TWIN-SIX



We have occasionally received reports of difficulty which has been encountered when high test gasoline or blended gasoline, a portion of which is of unusually high gravity, is used in the Twin-Six in warm weather.

When the motor becomes very warm, the heat of the exhaust manifold is sometimes sufficient to boil the liquid in the float chamber, in which case the motor may load or even refuse to run at all. This condition can be detected by stopping the motor, removing the needle valve cap and watching the action of the valve itself. If the gasoline is boiling in the float chamber, the needle valve will jerk up and down rapidly.

The carburetor will also flood for short periods at intervals which will lengthen as the motor cools. This intermittent flooding is due to the fact that when the gasoline in the float chamber has been heated by the manifolds to such an extent that it boils over thru the jet and runs out the overflow, comparatively cool gasoline flows in to take its place, and the flooding is not repeated until the temperature of the new supply is brought up to the boiling point. This time interval naturally increases as the motor cools.

The condition will not be encountered if regulation gasoline is used, but owing to the fact that it is sometimes difficult to avoid the use of high test or blended fuels, we have developed a service equipment which may be installed where the condition is encountered, and which will reduce the boiling tendency.

You will note by referring to the illustration that a special float is employed with two vertical passages, one on each side of the needle valve, so that any gas forming underneath the float is free to pass up into the enlarged space which is provided above the float chamber. From this space a tube leads over and connects with the top of the primary air intake, so that any gas forming over the float chamber passes thru this tube, and is drawn into the carburetor.

The piece numbers of the details necessary are indicated in the illustration, and the equipment as a whole may be ordered as follows:

1-97036—Motor Carburetor Equipment — For High Blended Gasoline

Yours very truly,

PACKARD MOTOR CAR COMPANY.

*H. N. Davock*

H. N. Davock,  
Manager Technical Service Department.

Any references herein, to future business, are made subject to the continuance of the existing agreement between the Manufacturer and the Distributor