INTRODUCTION

The Holley Carburetor Model 1904 is a notable advance in carburetion engineering. It combines the time-proved Holley characteristics of efficiency, dependability, and effective performance in a compact unit of outstanding simplicity.

The elimination of the conventional air horn has resulted in a carburetor less than two thirds the height, but having a capacity comparable to units of standard design. By locating the choke plate in the venturi, the elimination of the air horn has been accomplished with no loss in efficiency or performance. In addition, the arrangement of the mixture discharging components in relation to the choke plate when open, aids in the distribution and vaporization of the fuel discharged into the airstream passing through the venturi.

In line with the advanced engineering conception of this carburetor is the transparent fuel bowl of most versions of this carburetor model. This transparent fuel bowl greatly simplifies trouble shooting and carburetor servicing. Overhaul procedure also has been simplified by combining most of the fuel metering elements of the carburetor in a single, easily replaceable assembly.

Close attention to design details has resulted in the improvement of various other parts. A spring arrangement is incorporated in the fuel inlet needle to cushion float movement and act as a vibration damper to stabilize the fuel level on rough roads. The conventional economizer piston and accelerating pump piston have been replaced by neoprene diaphragms to insure more positive action and increased service life.

This manual includes a full factory-approved overhaul procedure together with much valuable information on the description, operation, and adjustment of the Carburetor Model 1904. Careful adherence to the procedures given in overhauling this carburetor will insure the retention of the high standard of economical, efficient, and dependable performance, characteristic of all Holley products, which is delivered by this carburetor.

DESCRIPTION

1. DESIGN

The Holley Carburetor Model 1904 is a single-barrel downdraft unit of advanced design. This carburetor is a model of noteworthy compactness and simplicity with its many new features assuring lasting, effective, and dependable service.

Most versions of this carburetor model contain a tempered glass fuel bowl which permits visual inspection of the float chamber. The action of the float and of the economizer stem during operation can be readily observed. Fuel level is clearly visible and the presence of water or sediment in the float chamber is readily detected.

Fuel from the carburetor fuel inlet discharges below the fuel level in the float chamber to prevent foaming or splashing, assuring a constant, uninterrupted fuel flow to the metering components of the carburetor. Fuel in the float chamber circulates completely around the easily removable main well and economizer body which contains most of the fuel metering elements and passages. This circulation has a cooling effect on the fuel being metered through the passages in the main well and economizer body. In addition to that factor, the high-lift design of the carburetor main well gives this carburetor excellent hot operation and anti-percolation qualities.

Improved control of the power enrichment