motor cylinder is in the form of an inverted L. but for ease of illustration we are showing a passed, in the form of the letter T. The Hudson close, and we then have a volume of gas, repreaccording to the ideas of the designing engineer chanically and the gas rushes through the same time the inlet valve (I) is lifted methus causing a partial vacuum, and at the downward increases the size of the chamber, connecting rod (R), which is actuated by in the cylinder, through which the piston has sented by the combustion chamber and the space At the bottom of the stroke the intake valve will the beginning of the stroke, or close to that, this partial vacuum. The intake valve opens at there past the valve (I) into the cylinder to fill carburetor and the intake pipe (G) and from the crank. we will say the crank (A) on the crank shaft (S), which Γ-head. As the crank continues to revolve, we refer we are revolving by means of The movement of the piston

the carburetor question later.

erally

power stroke, or the explosion stroke.

square inch.

again, as shown in Figure 3, which is called the pounds and thus forcing the piston downward very great, causing the pressure of 200 to 300 is exploded by means of an electric spark, genare in line), the charge of gasoline vapor and air when the crank (A) and the connecting rod (R) at the top of the stroke, or dead center (being motors ranges between 50 and 60 pounds per ting same under compression, which in Hudson size of the space containing the gas, hence putto Figure 2, in which you see both valves closed real thing in order to make the illustration plain. We will assume that the combustion chamber of which is shown out of proportion to the Therefore the advancing piston is decreasing the as shown by the arrow, owing to its being pulled down by the carburetor through the port (G) and the valve (I) into the cylinder, the mixture has been properly made at the carburetor, and take up Referring to Figure 1, Page 4, we see the gas coming from the Upon firing, the expansion of the gas is given with a spark plug (U), described At the moment the piston arrives The piston (P) is moving downward, VIBRATORS 3 3A IACUIT ZA IA SECONDARI CIACUIT PRIMARY TIMER CIRCUIT MAGNETO FRONT ELEV. MAGNETO BATTERIES Nº 1 FIRING PLAN OF MOTOR