NITH CARBURETOR CO 2000 WABASH AVE.

NSTRUCTIONS

The Operation and Care of

Automobile

1921

supplied with this car is manufactured by the Model T4 Carburet

carburctor

Collected

YEAR

Sand Carburctor Company, Detroit, Mininger. or barrel; a system of notates chamber, or bowl; a carburcting chamber, or barrel; a system of notates and air passages, and a hot air sieeve.

CODE 0 c 80 × Chicago Jan 20

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edge of the butterfly, where the idling hole is located. Under this con-J, where it is mixed with the air measured past the conical upper end of then lifting it through idling jet P which has a calibrated measuring hole at its upper end. From this point it is carried into the idling tube dition little or no fuel is supplied by main jet G or cap jet H. Gasoline closed and the motor is "turned over" there is a strong suction at the should not be changed. from compensating jet I flows into atmospheric well W, the suction the Idling Adjustment. barrel and to the motor. the idling jet, and thence through the idling hole into the carbureton barrel and to the motor. The sizes of the nozzles have been determined at the factory and The only adjustment which might be useful is When the butterfly throttle valve T is nearly

Idling tube J is screwed into a projection from the barrel and its position is thus "fixed." Idling adjusting tube P1, which is permanently assembled to idling jet P, screws onto the idling tube and is screwed up or down to secure the proper adjustment for idling the motor. J, admits more air and thus thins or "leans" the mixture. Screwing up motor. Screwing down increases the air passage left between the coniface of the idling adjusting tube. ment is locked by the idling spring P2 which engages the knurled surreduces the air passage and thus "richens" the mixture. The adjust Screwing up

starts, open the strangler valve. Strangler spring Q3 normally holds care of the different requirements of winter and summer driving. at the same point irrespective of the outside temperature, and thus tubing to the carburetor hot air sleeve Y. This sleeve is provided with the strangler valve in open, or running, position. on the idling hole and will raise the gasoline. Immediately the motor STARTING THE ENGINE—Open the throttle "just a crack" and close the strangler valve Q tight. Thus will create a very strong suction does away with the necessity of changing the carburetor jets to take locked in any position by a knurled screw and nut Y2. By this means sired degree the two rectangular cold air openings R, and which can be a band Y1 which can be rotated about the sleeve, opening to any dethe temperature of the air entering the carburetor can be maintained haust pipe is drawn into the carburetor from the hot air stove through HOT AND COLD WEATHER—Hot air taken from around the ex-

Each part has its place and can go in no other. taken apart and replaced without fear of changing the adjustment If necessary, the carburetor may be entirely removed from the motor moved at the same time and any accumulation of sediment cleaned out. body D and cleaning filter screen D1. Lower plugs L should be retended to periodically by removing the filter plug D2, dropping union from dirt and water) is the only care necessary. This should be at-CARE OF THE CARBURETOR—Keeping the carburetor clean (free

the make, model and serial number of your car. Compound Nozzle Explained" and "Instruction Book," mentioning Zenith Carburetor Company, Detroit, Michigan, asking for "The For more detailed information about the carburetor, address the

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of the motor and degree of throttle opening. collar G2, closes the needle valve G1 on its seat S. From the bowl izontal level line) in the bowl, the float, acting through levers B and soon as the gasoline reaches a predetermined height (shown by the horvarious quantities and proportions, according to size of nozzles, speed to the motor gasoline flows through three different channels, in filter screen D1 and enters the bowl through needle valve seat S. Gasoline from the tank enters the strainer body D, passes through

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Q3 O D