## MOTORS AND MOTORING:

A Page Full of Interest to the Owner or Prospective Owner of an Automobile.

CIVIL WAR ON BIG SCALE THREATENS



London reports that military operations on a large scale are impending in Ireland and the Republican forces are said to have taken up a line from Limerick to Waterford and to be entrenched in readiness for an attack. The line is shown on this map

#### KNOW YOUR CARBURETOR

supposed to do is essential to the owner an automobile. The carburetor is a device which vaporizes the liquid gasoline with the points adjusted so that the open and mixes it with the necessary amount of air so that it will burn with a very intense heat in the combustion chamber of the gasoline engine.

gasoline that is sprayed is controlled by a needle valve which can be adjusted it is well worn. A cracked or dirty por from the driver's seat. Others have the celain is a source of much ignition trouble which can be adjusted only when the hood is raised. Many carburetors have no adjustment for the air; others have adjustment of air on the steering columns.

The general rule for adjusting a car-buretor is to adjust the gasoline for low fective one and note results. speed and the air for high speed; but, be fore a driver attempts any carburetor adjustments there are a number of things he should do If all motorists would learn just one thing about carburetors there would be far less motor troubles gine industry operators have noticed that that is, leave the carburetor alone until on damp days and nights when the air is everything else has been made right. Never attempt to adjust this important gine runs better and with more power on a mechanism until you have tested your given throttle opening than it does on a compression, proven that your ignition dry day. is in first-class order, and that lubrication

To test the compression, use the startssion, hold against the compression with a steady crank pressure and note will remove hard carbon. how long it takes for the compression moves easily. If under a good steady pull the compression holds up for a halftest until all cylinders have been tested. If all stand the test there is nothing to water is sent into the cylinders upon be done, but if one or more cylinders are the intake stroke the charge is naturally leaking this must be remedied. The cooled. On compress on it is heated, commonest cause for lack of compression to make them air tight. Compression leaking past the piston rings is usually accompanied by an excess of oil in the the water. combustion chamber; also a hissing noise can also be heard if the car is held close to the breather pipe while the compression is being tested. This is a serious thus helps put some more power where it matter and requires a trained mechanic is needed. In other words, during the

After testing the compression test out the ignition. This can be done by removing one wire at a time from the spark to give it up later when the heat is needed plugs and holding the end of it about a in the cylinder. This explanation may be quarter of an inch from the head of the engine and note if a strong, steady spark as to water decomposition wro

is delivered from the wire. This test is An understanding of the principles of own power. If the spark is good, test the carburetion and what a carburetor is next, and so on until all of the secondary wires have been tested. The next point is the spark plug. A plug should be clean ing between the points is .030 of an inch This is correctly measured by a thicknes gauge, but as few motorists have a thickof the gasoline engine.

In some carburetors the amount of and it has been suggested that a dimbe used, but a dime is too thick unles soline adjusted on the carburetor but a dirty plug does not of necessity and test it, if it cannot be taken out the

#### DAMPNESS HELPS GAS ENGINES

on damp days and nights when the air is

The facts are these: Water fed to the engine does increase the power. At the same time it has a tendency to reduce ing crank. With the ignition switch carbon deposit, and under certain certurned to off position pull up on the start-cumstances it is likely to remove a deing crank until a cylinder is under composit of troublesome particles though it cannot be said with certainty that it

The automobile engine is a notoriou to decrease to a point where the crank heat waster, though it is, strickly speaking, a heat engine and therefore should not waste any heat, or as little as possible. minute, it is satisfactory. Turn to the Yet fully one-third of the heat generated next point of compression and repeat the (and the heat is power) is lost by being passed to the cooling water. Now when and upon explosion it is turned into steam, is leaking valves. They must be ground thereby taking away some of the heat to make them air tight. Compression which would ordinarily be wasted by passing through the water jacket into

> Later in the power stroke, when the power on the piston is reduced the steam gives up its heat in the greater part and early part of the explosion stroke the water prevents a heat loss by taking

### SPEEDOMETOR MECHANISM

A problem which is comparatively are, but none the less irritating, is the repair of the speedometer drive shaft. If you never perform this operation personally, you must pay for the endless assing of the mechanic. Out goes the broken link. In goes a new one. Carefully the long chain 's fed through the tube and then the fishing begins. If, in the first place, half a dozen extra links are attached, the surplus length makes it easy to pull the chain taut, the driving member being attached after the extra links are removed. Speedometer chains will not break nearly so often if the tube slopes uniformly downward, without any dips in its length to collect water and dirt. A little tying with straps or tape will arrange the speedometer tube

#### MOLASSES SAVES GASOLINE

Little dabs of cheap molasses on plain ne sticks in the hands of 61 oil inspectors in Minnesota have saved users of gasoline thousands of dollars during the past made while the engine is running on its year, according to Hjalmar Nilsson state oil inspector. Incidentally this simple test for discovering gasoline has gone out from Minnesota to dozen other states.

On the theory that water is heavier than gasoline and always sinks to the bottom, Mr. Nilsson devised the simple test a year ago. A stick dipped in cheap ses glides through without showing any effect on the mo-lasses. But when the water is encountered the molasses comes off the stick. When the stick is withdrawn the exact amount of water in the bottom of the tank is clearly revealed.

Don't pass a vehicle at an intersection

A telephone pole never hits an mobile except in self-defense.

Shellac and soap are best to use a asoline leak preventatives.

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#### DON'T DO IT

Neglect the brakes Argue with the cop

Drive without carrying a "spare' Stop or turn without giving a signal. Drive under influence of Volstead ntidote.

Try to beat the other fellow to the

Try to take the right of way from a

Drive at night with a single headlight. Leave car unattended without thiefproof appliances.

Try to make the cop believe you have ence higher up. Blow horn loudly when only two feet

rom a pedestrian.

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### CAR FOR HIRE

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