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# FIND BEST OILS ARE ECONOMICAL

Manufacturers for Years Have Called Attention to Importance of Lubrication.

## OWNERS DEPEND ON DEALERS

Inferior Article Decomposes sasily nd Forms Large Quantities of Sediment and Carbon Residue —Wear Is Result.

Automobile manufacturers for Foars have been tempressing on motorage the was importance of correct fubridation for the maintenance of the highernal combustion engine. Their stand has been taken from an economical grand-point and in order to insure the jung life of the motor.

A recent investigation in the oil market showed that a large percentage of automobile owners, do not specify a particular brand when junchasing a lubricating oil, but expendentirely on the judgment and freference of the deater. This fact trakes possible the hurmful practice of substitution of an inferior gradeapt the price of a quality oil.

Educational Campaign.

Educational Campaign.

Feeling thut there are definite steps which can be taken to diminish this fact, the producers he fundamentally and the substitution of an inferior gradeapt of the constitution of

by step in a language which any hayman can thoroughly understand.
Lubrication has become recognized
as such an important factor that englacers have spent years of intensive
research to produce a lubricant shigh
will maintain its body under the extreme heat generated in the motor,
which varies from 150 to 1,000 degrees
Fahrenheit, and to function properly
under every possible condition.
Inferior Oil Wasteful.
It has been found that an inferior
tubricating oil very easily decomposes
and forms large quantities of sediment and carbon residue which has
no lubricating value and is therefore
waste material. This sediment and
carbon residue crowd out the good
oil from the bearings and rapidly
moving parts of the machine.

You Auto Know

#### You Auto Know

You Auto Know

That one of the chief causes of automobile fires, especially during cool weather, is "back, ir long," which, in turn, is due to the control of the sufficient of the control of the sufficient of the carburetor, and if it strikes engage from the ari intake of the carburetor, and if it strikes anything of an easily inflamma, ble nature, a serious explosion or fame is likely to result.

The collection of gasoline upon the drippan is one of the principal dangers in this connection, for the gas vaporizes so rapidly that, if the jun is not properly drained or cleaned at regular intervals, there is sinusci certification of the subsequent fame. The prevention of this risk, of course, the control of the subsequent fame. The prevention of this risk, of course the control of the subsequent fame. The prevention of this risk, of course the subsequent fame. The prevention of this risk, of course the subsequent fame. The prevention of this risk, of course the subsequent fame. The prevention of this risk, of course the subsequent fame. The prevention of this risk, of course, and the carburetor and cleaned, although dres have asso been known to start from back-firing ignitionly flows have asso been known to start from back-firing ignition goods of all or grease on the door of a garage.

### OVERCOME RATTLE OF DOORS

Effective Method is That of Bending Hinge as Shown in Illustration Herewith.

The doors of many automobile bodies, particularly the light cars, loosen up after considerable runcing, and cause a disagreeable rattle. Bubber-head nails, or strips of rubber cut from inner tubes, are frequently used to take up the play between the door and frame. A method that is more effective and requires a minimum of



Hinges Slightly.

work is that of bending the hinge, as shown, using a wrench with a pri between the jaws to prevent ms fing the paint. The hinge so bent at, assists in opening the door, the single action swinging the door; irdly open when the catch is relea depopular Mechanics Magazine.

The Architect of St. Paul'al,
Sir Christopher Wren's salary was
\$1,000 a year as architect of St. Paul'a,
Egot.only part of it in order to hurry him to finishelt. He was dismissed
after 40 years' service, when he was
eighty-two.

## RIGHT AIR PRESSURE IS QUITE NECESSARY

Overloading or Underinflation Increases Temperature.

Increases Temperature.

Amount of Heat Generated by Tire Is Due to Firship and Rending of Fabric and, Rubber—Old Tire Most Susseptible.

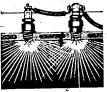
The heat that Is noticeable in a tree aften it has been run for a few hours is generated by the tire itself, due to testing and herding of fabric and rubber. The amount of heat depends upon the rapidity and extent of this action. An overleaded or an under-indiated the heat, more rapidly than a properly indiated, and properly louded the Similarly, a jed tire, due to weakness, is more susceptible to this heat-producing action than a new tire.

It is strength factor built into the standard presumed they of today is far alloye what the tire is ever called upon to leliver, excapt inder most extraordinary - circumstanges. Experimental tests have shown that in order to blow out a new first-class tire by additional air pressure it is necessary to exert a force of over thirty times the regular resommental pressure to its necessary to exert a force of over thirty times the regular resommental pressure of the regular resommental pressure of the regular resommental pressure of the regular resommental pressure would not be greater than six pounds. This small increase in pressure will not blow-out the canding. The monotons for changes in temperature and heat it is represent that it, is represent the secret of the proposed of the proposed pressure and the fit, is represent the secret of the proposed of the received.

#### SUPPLEMENTARY AUTO PLUGS

Purpose of Secondary Devices is to Make Ignition More Certain and Help Combustion.

Secondary, or supplementary, spark lugs now on the market are designed be inserted in the cylinder heads of a automobile engine alongoide the gular plugs, the purpose being to



Supplementary Spirk Plugs.

Supplementary Spirk Pluga.

make ignition more certain and combustion more complete by providing
two points in each cylinder at which
sparking takes place disultaneously.
The extra plug is conjected directly
the the regular plug and is so insulated that the current passes
through it without belug prounded.

Popular Mechanics Magazine.

## You Auto Know

That some care have a tendency to leak oil from the right-hand wheel housing, even when we have a con-parent and the source of the source of

prevents it from functioning properly.

A simple remedy for this is to wrap a long strip of him felt around the shaft, starting from the wheel and and working in a motion of the wheel, covering the art for a distance of about eight inches. The felt should then be fastened to the shaft with sheliac and held in place by cord, itself around it several times. When the shaft is turned, the effect of this is to force the oil back toward the differential and away from they have the contract of th

# AUTOMOBILE # GOS JIP #

A new owner of an automobile, when searching for trouble, often cre ates more than he finds.

A carburetor about not be adjusted until the engine is r i until it has at tained the heat it would normally develop on the road.

eighty-two.

For Service On Printing call

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Go over the electrical system and see that all loose when are fastened and loose connections attended to Test the battery and, if necessary, have it recharged to capacity.

# State Fair Cattle Barns Equipped for 1,000 Head

New Addition Will Make Department a Leader Says
G. W. Dickinson.

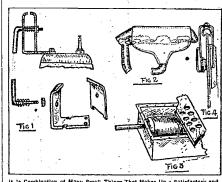
A new addition to the cattle barns, providing ample facilities for housing of 1,000 head of cattle. This, with the construction of our new collection, and the fact the preceding and the facilities for housing the partment one of the partment of

place.

"This year Michigan farmers who attend the fair will have the opportunity of witnessing some fine outside beef which, it has been promised, will exhibit here.

"We regard as an important step forward in the fostering of cattle in

# LITTLE IMPROVEMENTS MAKE FARM AUTOMOBILE FAR MORE EFFICIENT



it is Combination of Many Small Things That Makes Up a Satisfactory and Complete Whole.

There always seems to be some inprovement that can be made on the
farm auto, no matter how well
equipped the car may be. These inprovements are often were small mail
provements are often were small mail
more than the state of the can may be.
How often does the driver mechanic
who is, after all, the only one who
can run a car both economically and
fefficiently, need a vise while away
from the garage? Generally, through
tack of one at the time, only a makeshift repair can be made and these
shift repair to be the shift when the car, especially if going any
distance. The most satisfactory and the
suckest way to check tools and materials is to make a list of the
cone to be a second to be a seco

Haven't the Time, Leaders of men are seldom followers of fashion.—Boston Transcript.

Bornes Wedding Custem.
At a Bornes omarings ceremony a your sine here in sweet over and around the bride and bridegroom, art re which it is killed. The blood is smeared on the forehead, chest, neck, health of depoing in a title distinct of the bridegroom of the white is the stendard and the write is fit and plain it is a sign the write is fit smeared on the forehead, chest, neck, health of depoing in a sit the effect of in it while.

"A friend and Enemy.

"A friend," said Uncle Eben, "tells you yob faults, but an enemy jollies you along into makin' em worse an more numerous."