## The Automobile

help the engine to adju St itself in hot weather. It makes a difference to the motor- 4 solution out of the system. At th
sat whether the thermometer stand same time fresh water run from
at 90 degrees in the shade or at zero. $h$ hose or other source shoudd at 90 degrees in the ehade or at zero. hose or other source should be fed into
He will soon find out that during the the top of the radiator as fast as
he heawed term the engine readily be-- is pumped tout and thus fush the en
comes overheated. He should be fand tite system tee miliar with the various causes of this tire these asyem
automotive situation. One reasen
be because situation. One reason may ongine is getting too used, which does not empioy a pum
much fuel. If the enging is
Whed much fuel. If the engine is fed too used, which does not empioy a pump
much gasoine, it wourse, imposill tend to get too do this.
hot. The one remedy
hound remove both odo this hot. The remedy in such an instance
obviously lies in hose connections after running
lhinning down the the engise mixture. ${ }^{T}$ driver wing down usually find fit out as we.l as position and wash that the fuel required for summer mo-
toring should be leaner than that used
connection of of the inserted in the in winter. water summer driver finds that the of sediment, and the same process with
tendency to boili, which has ha hereater the result of the radiator ought to clean it out. tendency to boil, which is the result of fAN BELT MAY GIVE Trouble.
an overheated engine. However, the
 engines develop much less than the This may be because the engine throws
maximum horsepower because they
mease and oil more readily in hot
 Such conditions would not obtain if be wiped free of all oil occasionally.
It is always possibe to adjust the beit.
various parts were working as the de signer intended they sloold. During the beit should be tightened so that
the cold weather the motorist who the sufficient tension to drive the thabitially drives with a retarded fan at all engine speeds.
henerer the flywhed quences becauserve nh netious conse-- to form a fan the oilie pan and hoomper-' should be kept tight po that
 Thisine overneats and gives trouble the radiator is not kept free from oil
This hease he has not changed his the of driving as should be done. the outside passages will collect dust,
methe method of driving as should be done. the outside passages will collect dust,
In hot weather to drvive with a re- and reduce thevent a free flow of air
tarded spark is to invis tarded spark is to invite the engine , same reduce the radiating surface. The
to overheat itself. Becenise the engows if the front radia
 the lever partly retardeded tell of the time, is one of the last places to look
time instead of advancing it when a fouk. The action of the pump
the
 With the battery type of ignition or not the running and noting whether is circulating. But
system some change in the timing of , if a baffe patate is placed in the fiver the spark usually needs to be made to opening it cannot be seen. Then a test give the desired resuit at all points may be made in the same manner by
throughout the range of engine which the cleaning solution is washed speas. of course, when the engine is out.
turning over sowly unde a heavy the thermo-syphon system
load the spark must bo kept retarded
very little pressure is gererated and a o prevent knocking. However, when, slight obstruction will stop the flow it is running at the higher speeds or of water. Therefore it it is more nec-
at medium speed under iight loads the essary to keep the system free from
park must be advaifeni to secure proa sediment and to spark must be advalted to secure pro- sediment and to see that the gaskets
per power, effciency or operation and at the joints are made with circular
 Most battery systems are equipped obstruct the flow of water. Likewise,
with a governor which automatically water must be kept above the pipe
Wivances the spark as the engine speed leading to the top of the radiator in dyances the spark as the engine speed leading to the top of the radiator in
is increased, but some are not and in order to have any circulation in thte either case consideratile manipulation
of the hand spark lever may be neces-
Sometimes the sylining of the hose is
Losened and folds back inside, so that Oevreating may sometimes be the water does not flow freely. This
traced to sediment in the radiator, tis due to carelessness in stretching the which cuts off the free radiation of hose over the pipes at the radiator and
heat. The use of a saturated solution |cylinder block. Also the lining of the
 ally remove this. During the hot pieces will lodge where they cut
weather each year, it is well to fill the the circulation.
cooling system with a solution of this cooling system with a sioution of this In conciusion, keep the engine free
Bort and rum the engine for several from carbon and keep the vaive push
hours. Then drain this solution
 If, in the system ustd, a pump is comforts and troubies during the
employed, the upper hose should be warm weather months can be le disconnected from the radiator and the eliminated if the motorist remembers
engine should be run to pump the how the engine is different in summer.


CROSS-WORD PUZZLE





Said to date back to the 18th century, this frame structure at sillery,
Quebec, is described 2.8 the "oldest house in Canada." Acquired by the D. minion Historical Society, it will be beed for exhibition purposes. Acting to Unseen Audiences. $\begin{aligned} & \text { have other qualifications besldes tone } \\ & \text { The broadeasting of plays, offers a a } \\ & \text { and quality } \\ & \text { dramatic values. Hoice. He He must }\end{aligned}$ He learn wlide scope for the expression of dra- convey the varying degrees or dra-
matitc catent.
In will


 his audience cannot see him, and that eyes and innocent expression, but by
they rely up his voice to convey every the quality of his voice. All the emo-

$\xlongequal{$|  nement of the play.  |
| :--- |
|  The neppiring wireless actor must by carétul vocal expression.  |$}$

## WIRELESS FROM THE HUMAN BRAIN

 In the report of the United States
foreign trade for 1923 the expenditur The word chapel comes from capa, of tourists abroad is estimated at plied to the chest in which the relics
$8500,000,000$. The
phen

 thing elise to take full advantage of
this situation and to create a still
more thriving and remunerative



|  |  |  |
| :---: | :---: | :---: |

