## MOTORS AND MOTORING:

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

A PILGRIMAGE TO YPRES



Members of the Ypres League, led by Field Marshall, the Earl of Ypres, made a pilgrimage to the town recently to commemorate the fifth anniversary of the Third Battle. The photograph shows the procession passing the ruins of the famous Cloth Hall.

#### CLEAN MUFFLER A STEP TOWARDS MORE EFFICIENCY

with a muffler that needs attention pro- outs". crastinates and thinks perhaps he will fix it up tomorrow. And tomorrow never its greater use of gasoline and various other complications that a dirty muffler is kept in proper condition.

The exhaust valve opens while the pressure at all. For this reason manufrom twenty-five to thirty pounds per square inch. If this were exhausted will no longer install one except as an directly into the air the resulting noise would stifle conversation in the car, anbreak up the pressure by allowing it to soot or carbon from the exhaust. The very small holes, instead of letting it when the grade of oil used is poor or to loose in one "big noise"

mufflers were not used and everybody mixture. for blocks around knew when an auto was coming. As the automobiles in- clogged the exhaust gases cannot escape creased in number this became a nuisance and was stopped by law. Then they sought, indeed had been seeking, stroke. Result: It is impossible to bring they sought, indeed had been seeking, stroke. Result. It is impossible to bring a means of stifling the sound. In the early muffler there was trouble because the gas would back up in the cylinder and to explode, and this means a loss of decrease the power of the motor. It was power to the engine. thought there was no way to decrease the sound without decreasing the power; was opened wide without any increase therefore the manufacturers devised a in power. Trying to find out what the

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car whenever extra power was desired. out" and this caused the machine to ac-Sometimes the back pressure was so great as to interfere when driving through In other cases when the engine One of the parts of an automobile most neglected by many owners and drivers is the muffler. As a boy with a dirty face puts off the cleaning process just as long as possible, so the motorist with a muffler than the present time nearly every city was in the amount of the present time nearly every city was in the present tim a splutter and a stop, and the reason was that the muffler was so clogged that it

cranked there would be a few explosions

was impossible to exhaust the gas from

these few explosions; the cylinder remained full of burned gas, and, of course

could not take in a further supply. These

But even in these less serious cases

will often be found that the power of

the motor may be materially increa

posed to be overhauled completely

by having the muffler cleaned yet it seldom done, even when the car is

of course, are extreme cases.

As a matter of fact, those well posted fix it up tomorrow. And tomorrow never on automobile engines understand to-comes, but today is always here with day that the "cut out" is absolutely unnecessary on a modern car if the muffler Muffler manufacturers have been able to pro-Let us consider the use of the muffler. duce a design in which there is no back burned gas is still under a pressure of facturers discourage the use of the "cut "extra"

The average driver, however, does no noy everybody along the street and know that his muffler needs as careful attention as any other part of the mechthe police. The muffler prevents all anism, and so he neglects it. In these this. It provides a chamber in which days of noiseless cars it requires a great these exhaust gases may expand and number of very small holes inside the muffler. These become clogged with leak out slowly through a number of deposit collects very rapidly, especially much oil is used. It also results when the In the early history of the automobile carburetor is adjusted to give too rich a

When these small openings become

Cases are known where the throttle valve to "cut out" the muffler on the matter was, the driver opened the "cut

#### PICKED UP IN THE ROAD If you use kerosene for cleaning an

from which it cannot easily be removed. One of the elements of complication about bolts and nuts is the ubiquitous cotter pin. How is the best way to remove -Use a long stout button hook for that purpose. Be sure you note the position of the hole in the bolt before covering it with the castellated nut. While the nut is removed it often happens that an adjustment of one sort or another will prevent the nut being threaded far enough to bring the castelated portion in line with the hole for the cotter pin. In that case, put the nut on with the castellated portion first.

#### THE SULPHATED BATTERY

When a battery becomes sulphated because of neglect to charge it properly or because of low water in the cells it should be charged at a slow rate and discharged, the cycle being repeated until the battery is in good condition. Slow charging can be effected by operating the car with the sidelights or the headlights, during the day as well as at night. The set to use should be determined by the ammeter reading. When the ammeter hand begins to swing considerably past zero, the headlights should turn out. This will bring down the charging rate. If the machine is operated at a very high speed, it may be necessary to turn on the headlights to reduce the charging.

#### FOR A QUICK STOP

When making an emergency stop, leave the clutch engaged, apply the foot brake and pull the hand brake; but do not "lock the wheels". Keep the wheels rolling; otherwise there is danger that the car might slide or skid.

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#### REVERSING BOLTS

In some instances a nut is so placed that engine that is oiled under pressure, do it is extremely difficult to reach it with not run the engine, even with the starter. a wrench. Often this may be obviated This pumps kerosene into the oil tubes, by reversing the thread end of the bolt, whereby the nut is brought within easy

#### USING A JACK ON SOFT GROUND

When it becomes necessary to jack up a car on soft ground, where there is no support for the tool, take out the floorboard or toe-board and use it for the jack to rest upon.

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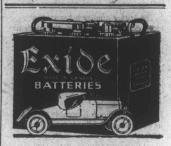
(Signed) FRANK E. JOHNS, Montreal.

(Signed) FRANK E. JOHNS, Montreal

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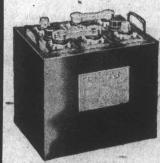
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