IN THE AUTOMOBILE WORLD

GASOLINE IS DANGEROUS, YET SAFE WHEN IT IS HANDLED WITH CARE another at the rear end of this shaft.

The Vapor is Highly Explosive—Many a Car Has older method which is in most general use, consists of slid ing or moving mechanical parts, which must be lubricated periodically in order to

gasoline is and how dangerous, but the fire danger is completely re few know how safe it is and how moved, there being no case properly to handle and store it. record where an underground tank Gasoline, as we all know, is de- has exploded, although we have rived from crude petroleum by a had some terriffic fires over process of distillation. Other prod- Small quantities of gasoline should ucts are kerosene, lubricating oils be kept in a dool, well-ventilated and greases, and paraffin, all used place, preferably out of doors. about an automobile. It has no can should not be airtight, color of its own. It boils at a tem- should allow some vapor to escar perature from 130 to 150 degrees, de- in order to avoid dangerous pres pending on the grade. It is compos- sure. As this vapor is exceedingly ed of two such dissimilar elements dangerous it must be carried off as as hydrogen and carbon. The lat- fast as formed by thorough ventilater is familiar to us in the form of tion. If allowed to accumulate it charcoal and hydrogen is a gas, one sinks to the floor, as it is very heavy of the constituents of water. It is a and only needs the flame to give a remarkable fact that two such ele- disastrous explosion. ments as hydrogen and carbon On the other hand gasoline is should combine and form a substance extremely safe when properly hand with none of the characteristics of led. An electric spark or a naked other of them.

details of care while filling tanks: match tossed under it or near lights, such as kerosene or acetylene; an accident. prevent spilling, as the vapor may Contrary to popular opinion, easily be ignited as soon as the en- full tank is far safer than one whi ine is started. We formerly advised has just been emptied. In the the use of a chamois strainer, but the ter case the vapor is mixed with friction of gasoline against a cham- in explosive proportions, whereas the ois skin causes a static spark which full tank has so saturated the air will set fire to the vapor. The Gov- the top that it cannot explode. When ernment has issued bulletins against any soldering has to be done this practice.

underground tank since it is always leak with perfect safety.

UNIVERSAL JOINTS IMPORTANT ON CAR

Lubricated Frequently to Prevent Woar and Breakage.

Automobiles, as everyone knows, are driven by power, delivered from the engine to the rear drive wheels. in some form or other. In most of necessary to put some kind of flexible the modern cars the engine is fastenthe frame of the automobile with the transmission fastened directly to the engine. The rear axle, through which the axle drive shafts extend, is fastened to the main frame | tion or universal joint, as it is usually

Everyone knows how powerful | cool eight feet underground as

flame is required to set it on fire. ing" signs in garages and wherever The dangerous nature of gasoline gasoline is handled is to prevent is well known, so that it will not be striking matches. Many a car has necessary to emphasize the following been burned by having a lighted Stop the engine, so that the flame The heavy vapor from the gasoline, from the exhaust will not set fire to perfectly invisible, creeps along the the vapor; put out all open-flame ground, where it lies waiting such

gasoline tank be sure that it is near Gasoline should be stored in an ly full and then you can work on the

> changing when the car is being driven over uneven roads.

If we had a rigid shaft to carry or transmit the power from the trans mission to the rear axle, the shaft would have to bend with every up and down motion of the car or change of distance between the axie and the frame, which would be a mechanical impossibility. For this reason it is drives the wheels and the transmisof the springs.

In most cars, this flexible conneccar by means of springs in | called, is placed at the forward end to make the car ride easy. This of this driving shaft, just at the rear

Dodge Brothers

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Exceptional interest has been aroused by the

The entire rear compartment furnishings-

seat, seat cushions, back cushions, seat

frame, foot rest, carpet and all-can be re-

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In this way, a space of sixty-four cubic feet

in the rear compartment is made available

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place, the interior is complete and attrac-

tive in appearance. Its convertibility is not

Business men, farmers, salesmen, campers, tourists and everyone who has occasion, at

times, to carry bulky articles or luggage,

will readily appreciate the great utility of

practical arrangement of the interior.

moved from the car in a few moments.

through the rear doors.

apparent to the eye.

for loading.

ly few makes of cars, there are two There are two general methods of

lubricated periodically in order to keep them from wearing, and thus from becoming noisy or wearing ou .. The newer type of flexible joint requires occasional attention, but not lubrication, so there is a slight amount of labor connected with the care of either type.

As these joints are placed directly under the centre of the car where they are hard to reach, they are often neglected. This neglect is sure to cause serious trouble before the car is very old. They are usually, the case of the type which requires lubrication, packed with a light cup grease when they leave the factory, and they should be refilled at least once every 1,000 miles.

This refilling in most cases, must to done by means of a grease gun, and while it is what we might call a rather dirty job, it requires only few minutes' time and will save this part from wearing out and becoming noisy. Improper lubrication also will cause this to wear so that it is easily pull from a mud hole or in starting a steep hill.

If the universal joints become worn so that they are noisy, it is wise to have them checked over by an experienced man in order to se hether they are liable to break. The breaking of a universal joint no only prevents the car from running but causes the driving shaft to whirl around while the car is coming to a stop and damages the machine in other ways aside from the breaking of the joint itself.

Neglecting the Spare Wheel, Thanks to the excellent workmanship and substantial nature of the average small car, says The Light Car and Cyclecar, tire troubles in the first few thousand m'des are exceptional, and very often one notices that on a car which has actually covered this mileage the spare wheel has not been used at all.

It is not realized that it would be far better to put this wheel on, say at the end of 500 miles, and change periodically so that all five covers are used.

So long as the spare wheel remains inflated, its condition is neve doubted, and it is very often over looked; hence it may be found that the sun has had a damaging effect. that serious chafing has been taking place between the wall of the cover and the eides of the well, and that very likely, there is a small quantity

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which may have penetrated the bead-

AUTOMOBILES ARE SAVING

chools are furnishing transportation for pupils to and from their homes. Through the motor bus the consolidated rural school is made possible and the number of consolidations is going forward at the rate of about 1,000 per year. There are still 180,-000 one-room schools which should be consolidated. Since a consolidated school combines several adjacent school districts into one school it means a larger and better equipped school house. Since in the one-room rural school one teacher teaches all grades from the kindergarten to the eighth grade, while in the consol dated school each teacher instructs but two or three grades, this means fewer and more highly qualified teachers and better teaching.

Valve Tapping. When one is travelling, and time is not to be wasted in such tedious and exacting work as taking up extra clearance between a push rod and a valve stem, there is a simple way to stop an annoying valve tap. The tappet with the extra clearance should first be located by turning over the engine slowly by hand and feeling each push rod when it is at its lowest position (when the valve is closed). Having found the guilty tappet, insert a thin piece of paper between the end of the rod and the valve stem. As the paper is continually under pressure it will not slip out, and it is not likely to wear out for quite a number of miles. If the clearance is very excessive, a piece of a visiting card will do the trick.

The Rays of Head Lamps. When a car is used for night driving, head lamps should be properly focused. Place the car in front of a white wall, so that the lamps tace the object at & distance of 20 feet, and try the effect of changing the adjusting screw back and forth until the best effect is obtained.

Driving Without Tire. When a tire goes bad and there is no other to replace it, it is better to run on the rim than on the felloe band. The band is quite thin and easily bent. Any damage to it will be transmitted to the wooden ferloe, which will make a much more expensive repair.

850 Rural Countles Want More

A survey by U.S. County Agricultural Agents reports a need for more motor trucks in 650 counties. Georgia reports the biggest demand with 59 counties; Pennsylvania is next with 43.

To Cover Brass With Paint. Before attempting to paint over polished brass the metal should first be scoured with a mixture or salt and vinegar to remove all grease, after which the surface should be washed with hot soapsugs and wiped dry with a clean rag.

Extra Tire Mileage The tires of an automobile often go a further distance than the score shown on the speedometer. The in-THE RURAL SCHOOLS strument never registers when the car is backed, skidding, or the extra

mileage covered when one of the

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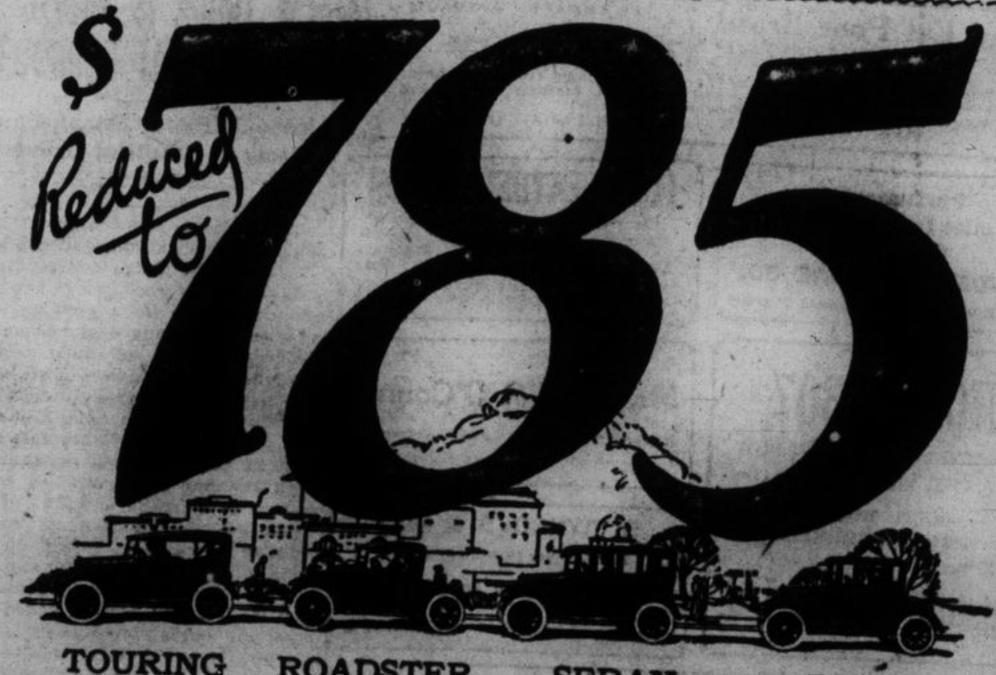
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