

CAREFUL DRIVER USUALLY DOES NOT GET IN TROUBLE

Auto Manufacturer Gives Some Hints On the Proper Driving of Cars

"Everyone thinks he or she is a careful driver, but very few are really experts. It's the little things that are frequently overlooked that sometimes count the most," says a prominent auto manufacturer.

Always drive your car as carefully as you want others to drive. Careful driving not only protects your life and the lives of others, but also protects the life of your car.

and numerous safety campaigns are being launched, both locally and nationally.

The fundamentals of good driving the left. are confidence, care and caution. The | Many motorists who are otherwise | bearing that the cup was intended to | hands of the complaining owner. good driver is careful and cautious careful drivers do not park their cars unconsciously from mere force of properly. Parking should be done habit.

One of the most important points, ests of the "other fellow." yet one which very few motorists consider a vital requisite, is the manner | turn the wheel at an angle against the of holding the steering wheel. The curb, as a safety measure. When it wheel should be held firmly with the is necessary to park on an up grade, right hand grasping the wheel about the front wheels should be turned outone-third of the distance from the ward and against the curb. As an bottom point on the right side, and additional precaution, the careful the left hand similarly placed at a dis- driver sets the gear shift in low and tance of one-third from the bottom pulls up the emergency brake. point on the left side. Good drivers always grasp the wheel from the bottom of the rim with the palm's nearly up. This allows, free, easy movement.

Turn the wheel with a steady moregulation traffic signals.

does it with an even and quiet acceler- carrying lubricating oil to the bear- opening on the car. These fittings are arm and forearm bent to approximate ation of the motor, dropping the ing surfaces. An excess of graphite, equipped with a ball check valve to a letter L. With the steering wheel elutch in with a smooth, velvet-like if be used with the oil, sometimes overcome the back pressure set up held in this manner the car will steer motion, and shifting into the various) produces the condition.

- Special Automobile Number gear changes without clashing. The

passengers in the car are hardly conscious that the change is taking place. Low gear should be utilized whenever necessary. It is well to remember the law of mechanics: In order to gain speed you must sacrifice power; in order to gain power you must sacrifice speed. If a driver approaches a steep hill he needs all of the car's power. Do not try to make a hill on high when the motor is being strained

When descending a steep, tortuous grade, it is always good driving practice not only to use the foot and emergency brake, but also to shift the car into gear before the descent.

Driving rapidly over rough spots not only produces discomfort, but is unusually hard on tires.

is dangerous and causes excessive slowly, remove the foot from the accelerator and do not disengage the Hints on driving motors are very clutch until the car has slowed down interesting at a time when so much to about five miles per hour. This slippery pavements.

Never pass another car on the right.

carefully, giving thought to the inter-

In parking on a down grade always

DRY BEARINGS

in the bearings is found in obstruc- either the Alemite or the Alemite- car is to sit comfortably in the dritions in the grooves in the bearing Zerb System of High-Pressure Lubri- ver's seat, grasp the steering wheel tion. Avoid jerky steering and use holder. Sediment often collects in cation. The system is simple. Spec- firmly but lightly on each side, usualthese grooves so that they cannot | ial types of fittings of convenient | ly with the right-hand palm up and In starting a car a careful driver perform their appointed function of shape are fitted in every lubrication the left-hand palm down, each upper

Automotive Lubrication and Its New Development

Thorough Lubrication of Car Chassis Every Five Hundred Miles Recommened by Manufacturers. Type of Oil Vitally Important. Popularity of Alemite.

achievement of the automotive engi- -either hand size supplied for the positive mechanical action says Motor neer during the past few years, is the individual car owner or larger sizes Trade. tremendous improvements in the used by modern Service Stations. The method of lubricating the automobile force exerted by any of the High-Pres- health authorities and automotive enchassis. By the term "chassis" is sure Guns is sufficient to force out of gineers who have been studying the meant all bearings and moving parts the bearing all the old grease, leav- effect of temperature and other climexcept the engine proper.

On cars born early in automotive every part of the bearing. into-of a serious type.

Multiply this case by the number of a proper grade of lubricant. grease cups on the car and it would must be of a high type to prevent not require a big stretch of imagin-l breaking down in the bearings. ation to realize that any car in such | lubricant composed largely of "filler" condition was at least on the high is just as destructive as lack of lubri- operated in their garages and service the greatest difficulty," the authors road towards the repair shop-often cant. That is the reason the enin the hands of the wrecker.

gineering brains of a continent were lubricant for use with their system. grappling with the problem.

The result to-day, is that nearly One cause of insufficient lubrication | twelve million cars are equipped with | when the lubricant is forced through easier and there is less fatigue.

Reflects Tomorrows Voque -

Possibly the most outstanding the fitting by the High-Pressure Gun public garages should be ventilated by ing a new film or lubricant all round atic conditions on the deadly carbon

history, the open oil-hole had to suf- To-day every automobile manufice. Then, very little more than a facturer emphatically recommends to Avoid skidding in wet weather. It decade ago, the grease-cup was hailed the purchaser of his product the made safe by the use of exhaust fans, as the solution of the lubrication pro- thorough lubrication of the car chaswear on tires. Apply the brakes, blem-for problem it had developed sis every 500 miles. He does this con- care are operated, should provide a scientiously from a knowledge based properly designed exhaust system of It was soon discovered that the on years of experience. He knows that ducts connected to suitable exhaust exhaust with the suction pipes. grease-cup was not an unmixed bless- every car he sells is praised or damning-the grease caked in the cup; the ed depending on the service the car have shown that climatic conditions stress is being laid upon safe driving will result in a graceful stop, even on stem, from the cup down to the bear- gives, but he is also aware that in ing clogged up—the thread burred, many cases a car which does not give preventing the cup being turned down. the service the manufacturer knows Always sound your horn and pass on Any one of these mishaps was equally it should give, has not received fredisastrous—grease could not reach the quent and sufficient lubrication at the action.

supply, with the result that the bear- | Coupled with the need for "Every ing received little or no lubrication. 500 Miles Lubrication' is the use of gineering force which developed the The need for a thorough—positive Alemite and Alemite-Zerk System of -system of lubrication was by this High-Pressure Lubrication were forctime so imperative that the best en- ed to develop their own high grade

WORTH REMEMBERING

The correct position for driving a

MOTOR INDUSTRY SIXTH IN CANADA BY PRODUCTION

To Avoid Danger in Regard to Poisoning by Monoxide Gas, Etc.

Despite the fact that garage doors and windows are usualy kept open during the warm days of summer,

That is the warning of public monoxide gas which is taking a huge created as the by-product of industry. toll of life.

The smaller type of garage can be but larger garages, where numerous fans, these authorities declare. Tests vary so much that vitiated air will not exhaust by natural means through

producers as Willys-Overland, Gen- miles, in his own gasoline model, aceral Motors, Ford, Studebaker, Frank- cording to Betty Shannon and Elsie It lin and others have sent out warnings Johns in Liberty Magazine. to their distributors and dealers to "The car was built for 50 miles an make it a point to see that proper hour, but once out of sight of brick ventilating systems are installed and and cobblestone it made headway with stations. One manufacturer sent out continue. "This difficulty may be this message:

should be given to this room, to pro- President McKinley." vide sufficient ventilation in order to protect the workmen properly. It is a good plan to have flexible metal hose connections, with a series of adapters, so that the exhausts of the cars being tested may be connected to duet outlets where there is sufficient mechanical draft to expel the gases. During the rush periods the generation and accumulation of gases become greatest. Therefore, during these periods the ventilating equipment should be operating continuously at maximum capacity, in order to possible."

move serious danger of poisoning. clean or ignition troubles will follow. the use of small exhaust fans in private garages is being widely adopted since many automobile awners prefer to work on their own cars, but are frightened by the dangers of carbon monoxide.

In tests of the exhaust of a small 23-horse-power automobile engine, it has been found that it discharged approximately 25 bubic feet of gas per minute, samples of which gave an average of 6 per cent. carbon monoxide, or 11/2 cubic feet of the gas per minute. A ratio of 15 parts carbon monoxide to 10,000 parts of air is considered a dangerous concentration to be exposed to for a considerable time, and the small 23 horse-power engine, in "warming-up" and giving off one cubic foot of monoxide, would contaminate the air of a small closed garage 10 by 10 by 20 to the danger point in about three minutes. Automobile exhaust gas contains an average of from 7 to 10 per cent. carbon monoxide. The quantity of the poisonous gas expelled by a cold motor is greater than that Manager, Wholesale Division The expelled by a motor already warmed Packard-Ontario Motor Company, up due to the greater proportion of Limited, who is present at the Timgasoline or "richer mixture" re-

quired.

The danger of poisoning by paint in paint shops has been greatly reduced by provisions for correct systems of air-conditioning while the automotive industry itself has learned to use mechanically controlled air in practically every phase of manufacture for both protecting the health of workmen and speeding up production. It has taken the aggressive lead in a national movement for better air conditions in cities and to reduce the "sewage of air" which has been

Provision is made by the Ottawa Car Manufacturing Co., of Ottawa for a blower system which draws off the deadly carbon monoxide gas. No engine is allowed to run in that large garage without first connecting the

FIRST ENDURANCE AUTO TEST RUN MADE IN 1901

The first endurance run of an autovents located on the roofs. The air mobile was held in 1901, when A. L. and gases must be driven out by fan Riker, an early maker of automobiles, started a trip from New York to The plant engineers of such big Buffalo, a distance of less than 500

imagined when it is stated that it took The repair room where the mech- from Wednesday morning to Saturanics are making adjustment of car- day noon to cover the distance from buretor or testing engines should by Albany to Herkimer, less than 100 all means be amply ventilated at all miles. At Rochester the plan was times. In fact special attention abandoned because of the death of

HOSE PROTECTOR

Oil is the deadly enemy of rubber. It is a good plan to protect the inlet hose from the radiator to the pump from the effects of oil by giving it a coat of shellac and then a couple of layers of tape and shellac over that This shellac prevents the oil soaking through and getting at the rubber.

CLEAN PLUGS

Many car owners do not realize the exhaust the vitiated air as quickly as importance of keeping the spark plugs clean. The points of the plug sel-Physicians of the public health ser- dom need cleaning, but grease and vice have urged that the air in all mineral dirt do accumulate on the exgarages be completely changed at terior and interior of the porcelain, least five times every hour. This, it so that the current passes that way is pointed out, would be sufficient to instead of jumping the gap as is indilute the deadly gases so as to re-| tended. The plugs should be kept



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