

AUTO SENSE

A NEW USE FOR TOBACCO

By Williamson



Some drivers may disagree with Doc's tobacco theory. It has been subject to much discussion, but follow the directions Doc gives and test it out for yourself.

The surest way to keep your windshield clear on a rainy day is to be sure that it is clean. Particles of

dust or other foreign matter stuck on the glass prevents the water from running off in a clear sheet. Be sure that the glass is clean before you rub the wet tobacco over it. Anything that does not obstruct the vision and dissolves easily and evenly will serve the same purpose as tobacco juice. When a drop of water strikes the glass coated with

nicotine it spreads quickly, and, as others strike, the water begins to run off in a clear sheet. One application of tobacco should be sufficient to keep the glass clear for several hours. The temperature back of the windshield is always higher than the front when it is raining. The difference will cause the glass to sweat on

the back or inside, making the glass cloudy. You will have to keep it clean on both sides if you want to see through it. Some contend that it is possible to waterproof a windshield with glycerine. This may be true, but Doc has experimented with it several times without success.

HINTS FOR THE MOTORIST

ALBERT L. CLOUGH

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Every Operator A Driving Instructor (Continued)

AFTER THE NOVICE has gotten the "both feet forward" movement so ingrained among his reactions that he is sure to stop his car promptly, when necessary, no matter how "rattling" the conditions may be, the worst is over and the instructor can go on, with confidence to some of the finer and less vital points. He can drill into his pupil's mind these and other important precepts: Never to try to shift gears until the clutch has been disengaged. Never to let the clutch in suddenly or until the engine is somewhat speeded up. Never to go into the reverse position while the car is moving forward or into a forward speed while it is still backing. Never to push the starter pedal except when the engine is at rest. Never to keep the choke closed except when necessary and never to race the engine. By making the pupil stop frequently and pass through all forward speeds at starting, practice in shifting gears can be made intensive and repeated demands to change from third to second gear will soon develop skill in making this more difficult shift. As soon as safety considerations permit, speed control by the hand should be given up for good and practice in using the accelerator should be commenced. In training a new operator, the most important things to do are to make him drive slowly at all times and to practice him constantly in stopping his car. The use of the hand and foot brakes simultaneously should be enforced upon him, by frequent sudden commands, as early as possible in the course of instruction, for the instructor's prime obligation is to make him a safe operator, one who will always react instantly and positively to avoid collisions.

CHIRPS LIKE A BIRD



C. H. D. writes: The engine of my car "chirps" well, but when it is pulling hard on a hill or muddy road, there is a clicking noise, which sounds like the chirp of a bird. Some say this is caused by high compression and some say that the intake manifold is leaking air, but the latter seems O. K. Have just had carbon removed. What is your opinion?

Answer: We do not agree with him. If the carburetor is properly adjusted and adapted to the engine. Under other conditions it may happen that pulling power may not increase with throttle opening or may even fall off. Your trouble probably is in the vacuum-tank does not keep filled at full throttle, because of low manifold suction, but does so under the increased suction prevailing at half throttle. Be sure there are no leaks in the suction pipe to the vacuum tank and that the fuel strainer at the tank is not obstructed. Some cars have vacuum-tanks of rather too small capacity to meet severe requirements. If the vacuum-tank becomes nearly empty, the fuel level in the carburetor becomes abnormally low and the engine gets a very weak mixture, and develops but little power.

CLEANING THE COOLING SYSTEM



P. F. J. writes: In one of your recent articles you speak of using salt soda to clean out clogged radiators. My car is heating up faster than it should and I should like the details of this method.

Answer: Dissolve two pounds of salt soda (sodium carbonate or washing soda, not baking soda) in two quarts of hot water and pour this into the emptied cooling system. Then fill the remaining capacity of the system with water, start the engine and let it run until the liquid is fully heated, hastening the process by covering the radiator front. Remove the drain-plug and, as the solution runs out, supply water from a garden hose through the radiator filler opening to help wash out the scale which has been removed, allowing fresh water to enter until that entering at the drain opening runs perfectly clear. Then replace the drain plug and let the system fill.

THROTTLE OPENING AND PULLING POWER



P. J. writes: Recently, when my car is climbing a hill and nears the top, it slows down, but if I close the throttle half way, it picks up and goes over all right. My mechanic says that a car has more power, at low speeds, with the throttle half open than full open. What does he mean by this?

Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope.

DAVE FASSETT, VETERAN DRIVER

Piloting Reo Cross-Country Bus In First Trans-Continental Run. Old timers in the automobile industry are doing a good deal of reminiscing these days, the occasion being the first trans-continental motor bus trip which is now being made by a new Reo sedan type cross-country bus which is being piloted from coast to coast by Dave Fassett, veteran Reo driver, who bears the distinction of having driven in the first double trans-continental auto tour away back in 1905-06.

"It is interesting to compare the present day conditions with those which were encountered by the drivers in those early days and the accounts of the journey made by the famous Reo 'Mountaineer' seem more like those of the journeys of the old 'Forty-niners,'" says R. C. Rueschaw, sales manager of the Reo Motor Car Company.

"The fact that Fassett is now driving the new Reo bus from New York to the western coast carries particular significance and that long period which has elapsed since Fassett's first and most famous trip down to the present time has been a period of astounding development and equally astonishing experiences by this indomitable motorist," says Rueschaw.

"It will be of particular interest to compare the trip of the Reo bus with its luxurious equipment and complete appointments with that early voyage made by Fassett which started from Herald Square on August 19th, 1905.

"Surely the present trip will lack many of the hazardous experiences and daring feats which were manfully borne in those early days but it is of no less interest for all that. The trip of the Reo 'Mountaineer' was a double trans-continental tour begun under the auspices of the American Motor League, for the purpose of ascertaining the mileage between towns, recording the altitude, nature of the ground, depth of roads, grade percentage of hills and mountains and sending in daily reports on the conditions of the roads, bridges, mountain passes and sandy stretches of the Bitter Creek and Great American Desert.

"Incidentally, it was also designed to awaken an intelligent public sentiment in favor of at least one good road across the continent built and maintained under the supervision of the federal government. The route which was laid out for this little sixteen horse power Reo touring car was from New York to San Francisco and on to Los Angeles, returning to the east by the way of Albuquerque, St. Louis and Indianapolis.

"Fassett's experience between Flagstaff and Winslow, Arizona, may be regarded as typical. The distance is almost nothing on the map and yet, only thirteen miles out of Flagstaff, he was caught in one of the most furious snow storms of the year, completely snowed in and, after having been unable to make further progress over the steep roads because of the sudden failure of his gasoline supply, he was forced to stop upon the road without food or shelter and there he was found hours

later, almost frozen to death, by a searching party. He had used what little gasoline he had left to build a fire and the smoke from this was what led the searchers from Flagstaff to the Reo.

"Unprecedented interest was created all along the route and the newspapers' accounts of this early expedition read like the biography of Robinson Crusoe."

The new Reo bus is now on the first lap of its trans-continental voyage which will terminate at San Francisco. The northern route will be taken from Chicago.

ROAD HINTS.

Wipe oil or grease off casings. Watch out for the road hog. Keep the car well lubricated. Drive slowly through towns. Keep brakes in good condition. Speed hurts tires, especially in hot weather.

Watch for railroad crossings, and road breaks and curves. Keep tires well inflated, radiator full and fan belt taut.

On hot days coast down slopes with engine shut off. Sound horn at turns and approaching crests of hills.

Work your spark lever to relieve the engine. Shift gear when motor begins to labor on a grade.

Abrupt stops, quick starts and side skids are bad on tires. Keep out of ruts to save tire sidewalls.

Watch the ammeter to see that the battery is being charged while driving. A regular speed of 25 miles an hour, or even 20, is better and safer than spurts of speed.

FARMERS NOW OWN 40 PER CENT. CARS

The figures show that nearly 40 per cent. of all the automobiles in Canada are owned by farmers. According to the Firststone news service, business men and brokers own about 15 per cent., while the lowest figure, of 3 per cent., is attributed to contractors.

Makes Doors Rattle.

Every time a passenger leans his weight on one of the doors of the car it means that the hinges and door are strained a little farther out of normal position. This makes for rattles and poor fitting doors. One way for a driver to prevent this is to do the Sir Walter Raleigh act more often. A helping hand to a passenger in entering or leaving the car pays dividends in more ways than one.

Timely Suggestions.

Remove rust from radiator by brushing with a stiff whisk-broom or wire brush. Don't paint. It retards radiation of heat. Drain transmission of the winter light lubricant by removing drain plug at night. Next day flush with kerosene and refill.

California automobile association has 45 aid stations for motorists throughout the state.

Thirty-two per cent. of the persons killed by autos in 1933 were children under 15. Work your spark lever to relieve the engine.



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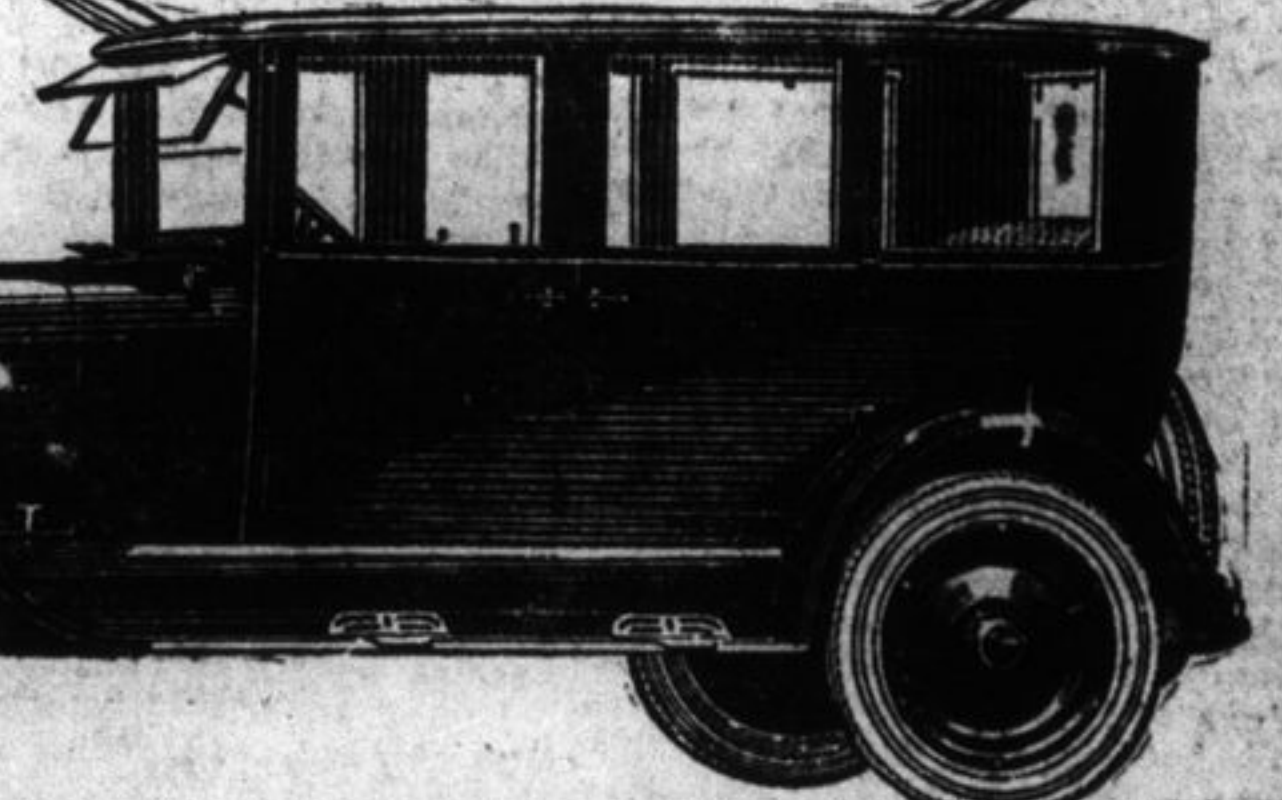
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SAFETY SIGNALS ON BUSES

Two-deck busses, operated by only the driver, have a unique signal system to advise the driver when all passengers are safely seated before he can move on. As soon as someone stands in the middle aisle of the upper tier, a light ray illuminating a signal in the driver's compartment is broken and the signal darkened. The driver does not go ahead until the signal shows clear.

HEMORRHOIDS

Do not suffer another day with itching, bleeding, or protruding Piles or Hemorrhoids. No surgical operation required. Dr. Chase's Ointment will relieve you at once and afford lasting benefit. See a local dealer, or Edmanston, Bates & Co., Limited, Toronto. Sample box free.

Gasoline Kept Clean. A new form of gasoline filter now on the market is attached to the vacuum tank and is designed so that even water and the finest dirt particles are kept out by a close-textured chamolite skin. A glass bowl into which the residue drops shows clearly when it needs cleaning out.

Fifth Avenue, New York, is made a one-way street during the rush hours.

Automobile Association of London has started a night aid service for motorists.

Advertisement for Old Kentucky Blended Cigarettes. Features a pack of cigarettes and the text: 'A perfect Blend of Virginia, Burley & Turkish Tobaccos. 20 for 25¢. IMPERIAL TOBACCO COMPANY, CANADA, LIMITED.'