

# What You Should Know About Your Auto; How To Drive and Keep It

Expert Advice How to Keep Automobiles Running Smoothly and the Best Way to Remedy Machine Trouble—Traffic Suggestions and Pleasure Routes for Evening World Readers.

By GEORGE H. ROBERTSON.

WHILE driving on Fifth Avenue, I have noticed now and then during the past few weeks the tendency of a few drivers of both horse drawn and motor vehicles to turn in the centre of the block, and making it a source of annoyance to the drivers of vehicles running north and south on the avenue. The habitual offender is the driver of the two-wheeled hansom, who while he can undoubtedly turn in a very short space, should be made to turn only under the direction of the traffic man stationed at the cross streets.

Vehicles are supposed to turn only at the cross street intersection and the driver who attempts to turn anywhere else, is a great hindrance to the movement of traffic. Conditions at the Williamsburg Bridge Plaza on the New York side are under heavy travel, due to the fact that all vehicles for Brooklyn must turn and take the narrow roadway on the south side of the plaza. An improvement might be made, however, if the news-standers, who have stands made of boxes, are kept out of the roadway at night. If this is done, there will be much more room for passing.

Why is the direct drive or high speed the best suited for average conditions? A. M. S. When the lower gear ratios are used considerable power is absorbed by friction of the gears. In the change speed gear, whereas on the high speed or direct drive position practically the only power lost is at the driving gears in the rear axle. The lower ratios are also apt to be noisy, whereas the direct drive is more silent. When in the direct drive position there is practically no wear on the change speed gears, and for this reason it is desirable to drive a car by throttle control, with the high speed engaged as much as possible.

Does the steering gear box need much lubrication and oil? WILLIAM WHITE. Practically all steering gears have increased reduction gears, and these are lubricated by a grease packing which need not be renewed except during the yearly overhauling. When the steering tube to which the wheel is attached passes through an outer casing it is necessary to put a few drops of oil into this casing every week in order to prevent rusting and sticking of one tube inside of the other. The motor control rods also pass through the interior, and while no provision is made for lubricating them, as a rule, it is a good practice to loosen the connections at their lower end and lift them out of the steering tube far enough to permit of oil being introduced. This need not be done oftener than two or three times a season.

Is the thick and heavily insulated wire the best to use for ignition purposes? How should the strainer of my coil be cleaned? ARTHUR NEALIE. The efficiency of ignition wires cannot be determined by the thickness of the insulation. Especially is this true of secondary wires. The insulation, however, should be of good quality. Unnecessary thickness of insulation increases the static capacity, which is undesirable. A clean screen of separator on gasoline feed line remove screen and use air pressure from a pump or tank. Place nozzle on hose against screen. The air will force all particles of fuzz and sediment out of the wire mesh.

What determines the capacity of a storage battery? R. GHEENE. The capacity of a storage battery depends upon the size and nature of the plates used in each cell and the numbers, as well as the number of cells joined together to form a battery. Batteries ordinarily used for ignition purposes are either of the 6-volt 60-ampere or 6-volt 80-ampere type. Those used for lighting service have larger plates and are more substantial in construction and are usually rated at 6 volts 100 ampere and 6 volts 120 ampere.

What is the actual duration of the inlet stroke of a motor? J. C. T. The period during which the inlet valve remains open varies according to the design of the engine and the speed at which it is running. In a four-cylinder engine, for example, the inlet valve opens fifteen degrees before the piston has started up on its compression stroke, it has remained open a period equal to 200 degrees crankshaft travel. If it opens promptly on top centre and closes on bottom centre, it would only remain open a period equal to 180 degrees crankshaft travel, or half a revolution of the flywheel.

Would you advise the examination of the gaskets of the inlet manifold, and also all the gaskets of the case of the third cylinder. A leak of air into the cylinder will cause a misfire, and this will also cause the miss you mention. Would you advise the examination of the valves? N. R. NOOMAN. Would suggest that you purchase a hydrometer in order to properly test the solution of the battery. The solution, composed of sulphuric acid and distilled water, should test 1.250 on the hydrometer. The top of the plates of the battery should be covered by the solution.

Does the adjustment of my carburetor have anything to do with the amount of carbon in my cylinders? I am using a good grade of oil and my motor usually chokes with carbon. R. W. N. Poor carburetor adjustments have a great effect upon the carbon deposit. Carburetor flooding and too rich mixture will cause a large deposit of carbon in the form of lamp-black. The absence of sufficient oxygen in a rich mixture renders impossible the complete oxidation or burning of both fuel and oil vapors. As a consequence carbon is deposited from the partially burned fuel and more rapidly from the highly heated unburned oil.

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# AUTO SHOW EXHIBITS INCLUDE 400 CARS AND ALL THE "TRIMMINGS"

Vehicles Ranging in Price From \$400 to \$6,000—Previous Shows Eclipsed.

The annual National Automobile Show will open at the Grand Central Palace this afternoon at 2 o'clock under the auspices of the National Automobile Chamber of Commerce. According to those in charge of the exhibition, this year's display will surpass in size and splendor any of its sixteen predecessors. There are cars of every description, from the smallest, costing less than \$400, to the big ones costing \$6,000. Besides the display of automobiles, there will be shown every accessory used by the manufacturers and owners of motor cars. More than four hundred complete automobiles will be on view.

The Palace has been made into a "Temple of Flowers" for the occasion, and concerts will be given both afternoon and evenings during the show, which will end a week from to-day. It is expected that the number attending this year's exhibition will exceed that of last year, when 340,000 persons viewed the display.

The Automobile Salon at the Hotel Astor, which will continue until Wednesday, again drew many visitors yesterday. W. C. Durant, President of the General Motors Company and the Chevrolet Motor Company, was one of the manufacturers who attended. He purchased for his personal use a LaSalle.

Other visitors at the Salon yesterday were: Mrs. Legrand C. Vanderbilt, C. Oliver Iselin, Foxhall P. Keene, Marshall Dodge, Snowden Fahnestock, H. M. Tilford, Col. Jacob Ruppert, Miss Bertha Galloway, A. D. Julliard and Jesse Livermore. Mr. Livermore purchased a \$15,000 Holla-Royce cabriolet, the chassis being similar to that bought the day before by John T. Pratt.

# SOOTHERN, ILL., HURRIES HERE

CHICAGO, Jan. 5.—E. H. Sothern cancelled his Chicago engagements to the Blackstone Theatre and left last night for New York, where he will remain preparatory, it is believed, to an operation. He was accompanied by his wife, Julia Marlowe, and Dr. Joseph Bissell, who had arrived in Chicago earlier in the day. Mr. Sothern is suffering from an acute attack of gall stones, which have left the gall duct and entered the kidney and bladder. The operation will be a serious one. Dr. Gustav Putterer says Mr. Sothern has a stone in the right kidney. Diagnosis was made after consultation between him, Dr. William A. Baum, Dr. Philip Kreisel and Dr. Bissell. The actor's condition is a matter of concern among his friends.

ANTI-PORK. Determined to eliminate the pork, Congress has limited the garden seed appropriation to \$213,000.

Will you explain in detail the cause and remedy of a gasoline motor when the cylinders are flooded and will not start; that is, why is it so hard to start the engine after the cylinder has been over-primed, how can you tell when it is over-primed and what is the quickest way of remedying it? B. BROWN.

A great many persons make the mistake of priming the motor too much. Too rich mixture will not ignite any more readily than a poor mixture. Raw gasoline will not explode but simply burn slowly. Most carburetors have a primary lever attached, which when pulled once or twice, is sufficient to fix the mixture for starting. When priming the cylinders direct from the petcock, very little gasoline should be used, the average petcock has a cup which if filled is enough to prime the cylinders.

I have a 1912 30 Packard. Two weeks ago I had it completely overhauled, and when I tried it out without the body on it worked very fine, but when I put the body on and ran her a few days a loud knock suddenly appeared, which is very hard to locate when the motor is running. When the car is idle the knock is very plain, and when I disconnect the fourth spark plug the knock disappears. When she is pulling up a hill it also disappears. The knock is located between the last cylinder and clutch. It has a disc clutch and when I release it she has a funny sound in it. It sounds like a grinding squeak.

From your description it seems as though the throw-out collar of the clutch needs replacing. If this is not the trouble, look at the rear main bearing of the motor and also at the clutch bearing.

2000 LEAGUES UNDER THE SEA NOTHING LIKE IT ON EARTH THE BROADWAY SENSATION TAKE THE CHILDREN BROADWAY THEATRE

# JACK SHERRILL A "MOVIE" IDOL



Jack Sherrill is one of the youngest stars appearing on the screen. He is nineteen years old, has been in pictures released by the World and Pathe, co-starred with Alice Brady in "Then I'll Come Back to You" co-starred with Edith Talaferro in Booth Tarkington's "Conquest of Canaan," played the juvenile role in "The Witching Hour" and is co-starring with Dorothy Bernard in "The Rainbow" and "The Accomplish." He has been in pictures about two years. His mail from admirers averages about 1,000 letters a month. He is immensely popular with New York, Chicago and Los Angeles exhibitors.

# Dual Exhibition Of Modernists at Daniel Gallery

Man Ray and H. Paul Burlin are conjointly showing examples of their work at the Daniel Gallery, No. 2 West Forty-seventh Street, until Jan. 16.

Man Ray has succeeded in producing a lot of monstrosities. They mean nothing to anybody. As freaks, they have a place, perhaps, in some museum, but as art objects they are without significance. The "Portrait II" is the most curious of the assembled lot of nine numbers. It deals with a created plane, in which a pentagon is featured. In the midst of this pentagonal plane there is the impress of a hand. Below is a push button, actually bought from an electrical supply store and screwed upon the background. Above, are two electric bells, with connecting wires, neatly painted upon the created plane, to indicate connection. When you press the button the bells fall to ring, which is very disappointing. The thing is objective, but gets nowhere.

In "Invention I," Mr. Ray has tried to get something out of an air brush, but the attempt was not very successful. In "Invention II" he used a twisted whip of silk, as a motif, and had a lot of fun cutting paper, as they do in the kindergarten schools. The cork-screw introduced is good, but the finished result, like all of his creations, is overshadowed by incoherence and emptiness. Mr. Burlin's work is primitive in all points and very hard. He had many opportunities to do some fine work among the Hopi, Pueblo and Navajo Indians, but because of his modernism he missed them all.

# Housewives' Association Can Win Honest Weights By Displaying Courage

With Potatoes Selling at Over a Cent Apiece It Is Worth While for the Economical Housekeeper to See She Is Not Short Weighted, Too—Complain to Hartigan, That's the Way to Find a Remedy.

By Sophie Irene Loeb.

Potatoes over one cent apiece! This is what members of the Housewives' Protective Association are reporting. Much of this high price is due to scant weights and measures that are being meted out to housekeepers.

On all sides advantage is being taken on account of the high price of food and at the request of many members the housewives are asked to take a firm stand as to the weight and measure end of buying until justice is secured.

While we are anxious to eliminate the artificial middleman, there are some legitimate middlemen that are absolutely necessary in order to get food at even the high rates.

The street vender is one of these. And often where there is a surplus of food products the street vender is a good medium for securing a little lower rate on various things.

However, he must not be allowed to operate on the streets of the city and cheat the public. Joseph Hartigan, Commissioner of the Bureau of Weights and Measures, who is working in co-operation with the Housewives' Protective Association, will prosecute any one who violates the law of honest weights and measures. It just takes a little courage for the housewife to make the proper report.

Every woman should see that she gets her just weights and measures. By doing this she is not only protecting her own rights but assisting hundreds of her less fortunate sisters in not losing what is coming to them, and loss of weight at present is a hardship on account of the soaring prices. With potatoes selling at more than a cent apiece, it is worth while for the housewife to see she is not short-weighted, too.

# COUNTRY PEOPLE HAVE THEIR TROUBLES, TOO.

One of the members of the Housewives' Protective Association who has made such a strong fight to secure proper weight of potatoes sends the following significant account of it. She gives her name and address, but asks that they be withheld only for the reason that her usefulness in this matter might go on:

"Staten Island. 'Herewith find membership application, and I earnestly desire to co-operate with the association to reduce the high cost of living. I have found the cost so high this year that I desire to make a protest.

eleven pounds. Talk about outrage. He did not seem willing to fill in to fifteen pounds and wanted to take them back, but I stood my ground. He had to give the weight, as I was up to his eyes in potatoes. "That's just one experience. Another vendor daily refused to sell to me because I weighed the potatoes. Well, it's got so bad now that they refuse to come into my yard, as I am guilty of wanting fair play. I will say there is just one who comes occasionally who will fill up to fifteen pounds without arguments, but when I miss him it means a hike to the next station, where there is a grocer who gives me the weight. "Now I have found so much cause for argument on this subject that I should be glad to have you make mention of this fact and give to the ones that take time enough to weigh articles some help in this line and report.

"I regret to add that I have questioned a number of so-called economical housewives as to the shortage on weight of potatoes. While three-fifths have scales, probably, they really don't take the time to weigh their articles, and as long as the basket appears to bear out the measure they will O. K. it. And some don't even know their weights and measure table, while the other two-fifths have no scale and just go on being cheated and still cry 'high cost of living.' While prices are so exorbitant one must make double efforts to get the correct weight. In general, every one should help the fight by showing just one instance where they know they are being cheated.

"I should be greatly obliged to hear of this matter on short weight potatoes. And how about apples by the peck? I would love to hear something on this subject of articles sold by weight. "These are obstacles to which city people who cannot get city prices are subjected. If the vendors once know their weight they refuse to serve you again; either pay my weight or do without. They even at times get very impudent so that one either buys or goes hungry."

HER VAGUE IDEA. (From the Kansas City Journal.) "I asked for alimony of fifty a week. I see women are getting that right along." "But, madame," explained the lawyer, "your husband is earning only twelve." "What's that got to do with it? I thought the Government provided the alimony."

MEMBERSHIP APPLICATION Cut out this coupon, fill out and mail to the Housewives' Protective Association, Evening World, Post Office Box 1354. 1916 Name Address I desire to enroll my name as a member of The Evening World's Housewives' Protective Association. Inclose 2-cent stamp and membership token will be mailed.

DUKE DE DINO DEAD AT 78. Twice Married to American Woman and Twice Divorced. NICE, France, Jan. 6.—Charles Maurice Camille de Talleyrand-Perigord (Duke de Dino) died yesterday at the Villa Perigord at Monte Carlo. He was seventy-three years old. The Duke de Dino twice married American women. His first wife was Miss Elizabeth Curtis of New York, whom he married in Nice in 1897 after having travelled extensively in the United States. She divorced him in 1885. The following year the Duke married Mrs. Adele Livingston Sampson of New York. She divorced the Duke in 1903. SEVEN YEARS TORTURE Nothing Helped Him Until He Took "FRUIT-A-TIVES" ALBERT VARNER. Buckingham, Que., May 8th, 1916. For seven years, I suffered terribly from Severe Headaches and Indigestion. I had belching gas from the stomach, bitter stuff would come up into my mouth after eating, while at times I had nausea and vomiting, and had chronic Constipation. I went to several doctors and wrote to a specialist in Boston but without benefit. I tried many remedies but nothing did me good. Finally, a friend advised "Fruit-a-tives." I took this grand fruit medicine and it made me well. I am grateful to "Fruit-a-tives," and to every one who has miserable health with Constipation and Indigestion and Bad Stomach. I say take "Fruit-a-tives," and you will get well. ALBERT VARNER. 20c a box, \$ for \$2.50, trial size, 50c. At dealers or sent by Fruit-a-tives Limited, Odgensburg, New York.—Advrt. BROOKLYN. STAR. Jay and Fulton Streets. Mat. Daily. Tel. Main 1018. PLEASING THE FRENCH FOLLIES Every Sunday, 2-10 CONCERTS

WILLIAM FOX PRESENTS "A DAUGHTER OF THE GODS" THE PICTURE BEAUTIFUL MATINEE TO-DAY AND EVERY DAY INCLUDING SUNDAY 2.30 EVERY NIGHT AT 8.30 SEATS 25c to \$2. A few choice Evening Seats at \$1.50 & \$2. Tickets on Sale 8 weeks ahead, including Lincoln's and Washington's Birthdays. 4TH MONTH OF CEASELESS CAPACITY CROWDS LYRIC THEATRE 43 ST AND BROADWAY This amazing, dazzling \$1,000,000 photo-spectacle is more than a picture. It is a lesson, a sermon—a symphony filled with thrills and throbs, with tears and sobs, with the emotions that make us think and dream and dread and disillusionize! It is the 8th World Wonder History records the only others approaching it as: 1. COLISEUM AT ROME. 2. CATACOMBS OF ALEXANDRIA. 3. GREAT WALL OF CHINA. 4. THE LEANING TOWER OF PISA. 5. PORCELAIN TOWER OF NANKING. 6. MOSQUE OF ST. SOPHIA AT CONSTANTINOPLE. 7. RUINS OF STONEHENGE. WITH ANNETTE KELLERMANN EXTRA: "ARTISTS' NIGHT" MONDAY Official Awards from the Stage by Committee of the National Theatre and Mrs. Kellermann Most Perfect Woman. BEST ARTIST CONTENT for Best Studies of "The World's SEVEN BELLING S WEEKS AHEAD IMPORTANCE OF THE THEATRICAL PRODUCTIONS and Patronage of "A Daughter of the Gods" has been the subject of the most interesting and valuable program in French or in English. (Insert \$2.00 to insure Accommodation and Protect Yourself Against Speculation.)